



## **VRP Semi-Annual Progress Report #3**

Proposed Chamblee Apartments  
5211 Peachtree Industrial Boulevard  
Chamblee, DeKalb County, Georgia

Submitted to:

**Georgia Department of Natural Resources**  
Response and Remediation Program  
Suite 1054, East Tower  
2 Martin Luther King, Jr. Drive, SE  
Atlanta, Georgia 30334

Prepared for:

**SLX GRAND Atlanta, LLC**  
1600 Atlanta Financial Center  
3343 Peachtree Road, NE  
Atlanta, GA 30326

Prepared by:

**Amec Foster Wheeler Environment & Infrastructure, Inc.**  
2677 Buford Hwy.  
Atlanta, Georgia 30324  
(404) 873-4761

April 3, 2018

Project No. 6121-16-0351

April 3, 2018



Mr. David DuBose  
Georgia Department of Natural Resources  
Response and Remediation Program  
Suite 1054, East Tower  
2 Martin Luther King, Jr. Drive, SE  
Atlanta, Georgia 30334

**Subject: VRP Semi-Annual Progress Report #3  
Proposed Chamblee Apartments  
5211 Peachtree Industrial Boulevard  
Tax Parcel 18-299-13-005  
Amec Foster Wheeler Project No. 6121-16-0351**

Dear Mr. DuBose:

Amec Foster Wheeler Environment and Infrastructure, Inc. (Amec Foster Wheeler) respectfully submits this Semi-Annual Progress Report #3 on behalf of the James F. Hickman, Jr. Trust. This progress report is required by the Voluntary Remediation Program (VRP) statute and requested by the Georgia Environmental Protection Division (EPD) in its VRP acceptance letter dated September 9, 2016.

This report is for the exclusive use of SLX GRAND Atlanta, LLC and for regulatory submittal. If additional information is required, please contact Mr. Chuck Ferry at (404) 817-0107 or by email at [chuck.ferry@woodplc.com](mailto:chuck.ferry@woodplc.com).

Sincerely,

**Amec Foster Wheeler Environment & Infrastructure, Inc.**

  
Steve Davenport  
Project Geologist

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

Cc: Mr. Anthony DelGuidice, SLX GRAND Atlanta, LLC  
Ms. Lynda Jane Hickman and Mr. James Hickman, James F. Hickman Trust

## TABLE OF CONTENTS

	Page No.
<b>1.0 PROJECT SUMMARY.....</b>	<b>1</b>
<b>2.0 ACTIONS TAKEN SINCE LAST SUBMITTAL.....</b>	<b>2</b>
2.1 ENVIRONMENTAL MANAGEMENT PLAN .....	2
2.2 MECHANICS PIT ASSESSMENT AND REMEDIATION .....	2
2.3 SB-6 AREA DELINEATION.....	3
2.4 SB-6 AREA REMEDIATION.....	3
<b>3.0 ROUTINE INSPECTION.....</b>	<b>5</b>

### TABLES

Table 1 – Soil Confirmation Testing Results – Pit 1

Table 2 – Waste Characterization Testing Results

Table 3 – Soil Delineation Testing Results – Pit 2 (SB-6 Area)

Table 4 – Soil Confirmation Testing Results – Pit 2 (SB-6 Area)

### FIGURES

Figure 1 – Site Location Map

Figure 2 – Site & Vicinity Map

Figure 3 – Mechanic’s Pit (Pit 1) Soil Analytical Data

Figure 4 – SB-6 Area Delineation Soil Analytical Data

Figure 5 – SB-6 Area Soil Confirmation Sample Data

### APPENDICES

Appendix A – Laboratory Reports

Appendix B – Photographs

Appendix C – Summary of Professional Hours

## 1.0 PROJECT SUMMARY

The Proposed Chamblee Apartments property (Site) is an approximate 3.86-acre parcel addressed at 5211 Peachtree Industrial Boulevard in Chamblee, DeKalb County, Georgia. The site is identified on the DeKalb County Tax Assessor's website as 18-299-13-005. Historically, the Site was developed with a trucking company and a filling station beginning in the late 1950s, then various automobile dealerships from 1978 through 2016. Refer to Figures 1 and 2.

Soil and groundwater assessments conducted between 2005 and 2016 indicated impacts to soil and groundwater. As a result, a VRP Application for the Site was submitted to the EPD on July 28, 2016. The Site was accepted into the VRP as indicated in a letter from the EPD dated September 9, 2016.

SLX GRAND Atlanta, LLC has initiated redevelopment of the Site with a five-story 240-unit multifamily apartment building and an associated parking structure.

The initial VRP Semi-Annual Progress Report dated March 9, 2017 documented installation of an additional monitoring well on the property and the results of laboratory testing of a groundwater sample obtained from the new well along with groundwater samples obtained from three existing monitoring wells on the property. The report also included the results of hydraulic conductivity testing conducted at the Site along with the results of contaminant fate and transport modeling. EPD issued a review letter dated July 19, 2017 with no comments.

VRP Semi-Annual Progress Report #2, dated September 8, 2017 documented the site condition at the time of the report. The report indicated that the sales and attached service building had been demolished, the secondary service building remained intact at the south corner of the site, and no ground-disturbing activities had yet occurred. EPD issued a review letter dated September 26, 2017 with no comments.

## **2.0 ACTIONS TAKEN SINCE LAST SUBMITTAL**

Activities that have been performed since the submittal of Semi-Annual Progress Report #2 include preparation of an Environmental Management Plan, soil contamination delineation sampling and testing, soil removal and disposal and confirmation sampling and testing

### **2.1 ENVIRONMENTAL MANAGEMENT PLAN**

Amec Foster Wheeler issued an Environmental Management Plan (EMP) in December 2017 as guidance for the contractor to comply with the approved Voluntary Investigation and Remediation Plan (VIRP) during ground-disturbing activities.

### **2.2 MECHANICS PIT ASSESSMENT AND REMEDIATION**

On December 5, 2017 Mr. Kevin McGovern, Site Superintendent for Whiting-Turner Construction, notified Amec Foster Wheeler that discolored soils exhibiting a strong oil or gas-like odor were encountered in the northeast corner of the site. Mr. Steve Davenport of Amec Foster Wheeler visited the site to observe and evaluate the condition encountered. The area reported by Mr. McGovern was observed to consist of a concrete-lined pit approximately 20 feet long and 3 feet wide which appeared to be a mechanic's pit. The pit was found to be filled with a mix of soil and debris which included discarded tires, oil cans, oil filters and other waste materials consistent with a former service station. Following the initial observations, the contents of the pit along with the concrete walls and floor were excavated and stockpiled nearby. The location of the mechanic's pit is depicted on Figure 1. Photographs of the mechanics pit and its contents are included in Appendix B.

On December 6, 2017, Mr. Davenport returned to the site to collect a sample of the pit contents for waste characterization sampling and to collect confirmation soil samples from the floor and sidewalls of the excavation. At the time of our site visit, groundwater was observed in the bottom of the excavation at a depth of approximately 7.5 feet below the surrounding grade. As such, an excavation bottom sample was not collected. Excavation sidewall samples were collected and submitted to Analytical Environmental Services in Atlanta, Georgia for testing. The soil sidewall samples were tested for volatile organic compounds (VOCs, EPA Method 8260B), polynuclear aromatic hydrocarbons (PAHs, EPA Method 8270D), polychlorinated biphenyls (PCBs, EPA Method 8082A) and RCRA Metals (EPA Methods 6010D and 7473).

In summary, VOCs, PAHs and PCBs were not detected above the laboratory detection limits. Metals including barium, chromium and lead were detected in each of the four samples tested but

at concentrations below their Georgia Hazardous Site Response Act (HSRA) Type 1 Risk Reduction Standards (RRS). The testing results are summarized on Table 1 and are depicted on Figure 3.

A sample from the pit contents was also collected and tested for total VOCs, PCBs and RCRA Metals. The sample was also analyzed for lead via the Toxic Characteristic Leaching Procedure (TCLP) for waste characterization purposes. The waste was classified as non-hazardous.

The laboratory reports are included in Appendix A.

### **2.3 SB-6 AREA DELINEATION**

A soil sample from the boring SB-6 area was also collected and tested for the same parameters. The results are summarized on Table 4. The laboratory report is included in Appendix A.

An excavation was planned for the area around boring SB-6 due to the detection of an elevated benzene concentration in one soil sample from a 2015 sampling event. During site grading, soils were encountered that exhibited strong gasoline-like odors in the vicinity of sample location SB-6 near the northeast site corner. Mr. McGovern of Whiting-Turner requested that Amec Foster Wheeler collect and test additional soil samples to evaluate the extent of soil excavation and disposal that might be required in the area of sample location SB-6.

On December 14, 2017, Mr. Steve Davenport of Amec Foster Wheeler visited the site to conduct the requested soil sampling. A total of fourteen soil samples were collected at locations directed by Mr. McGovern. Because benzene was the only constituent historically detected in the SB-6 area at concentrations exceeding the Type 1 RRS, the soil samples were tested for benzene only (EPA Method 8260B). The testing results are summarized on Table 3. The sampling locations and laboratory results are depicted on Figure 4. The laboratory report is included in Appendix A.

In summary, benzene was detected in twelve of the fourteen samples tested. The benzene concentrations detected were below the Type 1 RRS, suggesting that significant excavation and disposal of contaminated soil beyond the area immediately surrounding the SB-6 sample location would not be necessary.

### **2.4 SB-6 AREA REMEDIATION**

On December 21, 2017 soils in a 20-foot by 20-foot area centered on boring location SB-6 were excavated, direct-loaded onto trucks and transported, along with the soil and debris from the

mechanic's pit, to Eagle Point Landfill in Ballground, Georgia for disposal. Copies of the disposal manifests and weigh tickets will be provided upon receipt from Whiting-Turner.

Following completion of soil excavation confirmation soil samples were collected from each of the four excavation sidewalls. Because groundwater was encountered in the excavation, a bottom sample was not collected. We note that the excavation was backfilled immediately after sampling and prior to receipt of laboratory testing data due to the proximity of the excavation to Malone Drive and due to weather concerns.

The soil samples were tested for benzene (EPA Method 8260B). Benzene was detected in each of the eight soil samples tested. Only the benzene concentration detected in the 9-foot sample on the excavation's east sidewall (adjacent to Malone Drive) exceeded the Type 1 RRS. The laboratory testing results are summarized on Table 4 and are depicted on Figure 5. The laboratory report is included in Appendix A.

Plans are to remove the soil exceeding the Type 1 RRS for benzene during excavation of a utility trench along Malone Drive. No confirmation sample will be obtained since to excavation sidewall will coincide with the property line.

A breakdown of professional hours with a description of the services provided is included in Appendix D.

### 3.0 ROUTINE INSPECTION

Mr. Steve Davenport of Amec Foster Wheeler visited the site on March 23, 2018 to conduct a routine inspection. The following conditions were observed:

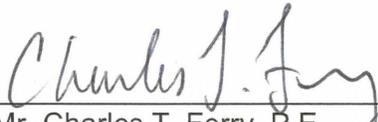
- Construction has begun on the property. The asphalt soil cover has been removed across the majority of the site.
- The secondary service building, formerly located at the southwest corner of the site, has been removed. According to Mr. McGovern, the automobile lifts which were used in the building, along with those in the former main service building were found to be pneumatic lifts rather than hydraulic lifts. Therefore, no subsurface tanks or piping containing hydraulic fluid were found and soil testing was not warranted.

Photos of current site conditions are included in Appendix C.

**GROUNDWATER SCIENTIST STATEMENT**

## GROUNDWATER SCIENTIST STATEMENT

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

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



## TABLES

**Table 1**  
**Soil Confirmation Testing Results - Area 1/Pit 1**  
**5211 Peachtree Industrial Boulevard**  
**Atlanta, Georgia**  
**Results reported in milligrams per kilogram**

Sample ID	Type 1 RRS	Pit 1 N/5'	Pit 1 E/5'	Pit 1 S/5'	Pit 1 W/5'
Date		12/6/2017	12/6/2017	12/6/2017	12/6/2017
Depth		5 ft	5 ft	5 ft	5 ft
Constituent					
VOCs	NA	BRL	BRL	BRL	BRL
PAHs	NA	BRL	BRL	BRL	BRL
RCRA Metals					
Barium	1000	<b>35.9</b>	<b>30.6</b>	<b>48.6</b>	<b>43</b>
Chromium	100	<b>16.7</b>	<2.72	<b>4.09</b>	<b>7.6</b>
Lead	75	<b>13.5</b>	<b>27</b>	<b>22.5</b>	<b>22.6</b>
PCBs	NA	BRL	BRL	BRL	BRL

**Notes**

- VOCs - Volatile Organic Compounds
- PAHs - Polynuclear Aromatic Compounds
- RRS - HSRA Risk Reduction Standard
- ft - Feet
- BRL - Below laboratory reporting limit

<b>X.XX</b>	- <b>Bold</b> values indicate constituent detected above laboratory reporting limit
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**Table 2**  
**Waste Characterization Testing Results**  
**5211 Peachtree Industrial Boulevard**  
**Atlanta, Georgia**  
**Soil results reported in milligrams per kilogram**  
**TCLP Lead results reported in milligrams per Liter**

Sample ID	Pit 1	Pit 2
Date	12/6/2017	12/6/2017
Depth	Stockpile	Stockpile
<b>Constituent</b>		
<b>VOCs</b>		
Benzene	<0.33	<b>0.0092</b>
Cyclohexane	<0.33	<b>0.018</b>
Ethylbenzene	<0.33	<b>0.028</b>
m,p-Xylene	<0.33	<b>0.099</b>
Methylcyclohexane	<0.33	<b>0.033</b>
o-Xylene	<0.33	<b>0.038</b>
Toluene	<0.33	<b>0.036</b>
<b>PCBs</b>		
Aroclor 1260	<b>150</b>	<0.041
<b>RCRA Metals</b>		
Barium	<b>135</b>	<b>27.5</b>
Chromium	<b>18</b>	<b>6.95</b>
Lead	<b>515</b>	<b>16.5</b>
Mercury	<b>0.135</b>	<0.124
<b>TCLP Lead</b>	<b>0.253</b>	NT

**Notes**

- VOCs - Volatile Organic Compounds
- PCBs - Polychlorinated Biphenyls
- TCLP - Toxic Characteristic Leaching Procedure
- NT - Sample not tested for constituent

<b>X.XX</b>	- <b>Bold</b> values indicate constituent detected above laboratory reporting limit
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**Table 3**  
**Soil Delineation Testing Results - Pit 2 (SB-6 Area)**  
**5211 Peachtree Industrial Boulevard**  
**Atlanta, Georgia**  
**Results reported in milligrams per kilogram**

Sample ID	Type 1 RRS	Pit 2/A-7	Pit 2/B-7	Pit 2/C-7	Pit 2/D-7	Pit 2/E-7	Pit 2/F-7	Pit 2/G-7	Pit 2/H-7	Pit 2/I-7	Pit 2/J-7	Pit 2/K-7	Pit 2/L-7	Pit 2/M-7	Pit 2/N-7
Date		12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017	12/14/2017
Depth		7	7	7	7	7	7	7	7	7	7	7	7	7	7
Constituent															
Benzene	0.5	<0.00097	<b>0.0075</b>	<b>0.0046</b>	<b>0.037</b>	<b>0.069</b>	<b>0.0037</b>	<b>0.0013</b>	<b>0.0051</b>	<b>0.0095</b>	<b>0.001</b>	<0.00087	<b>0.098</b>	<b>0.0051</b>	<b>0.02</b>

**Notes:**

**RRS** - HSRA Risk Reduction Standard

**X.X** - **Bold** values indicate constituent detected above laboratory reporting limit

**Table 4**  
**Soil Confirmation Testing Results - Pit 2 (SB-6 Area)**  
**5211 Peachtree Industrial Boulevard**  
**Atlanta, Georgia**  
**Results reported in milligrams per kilogram**

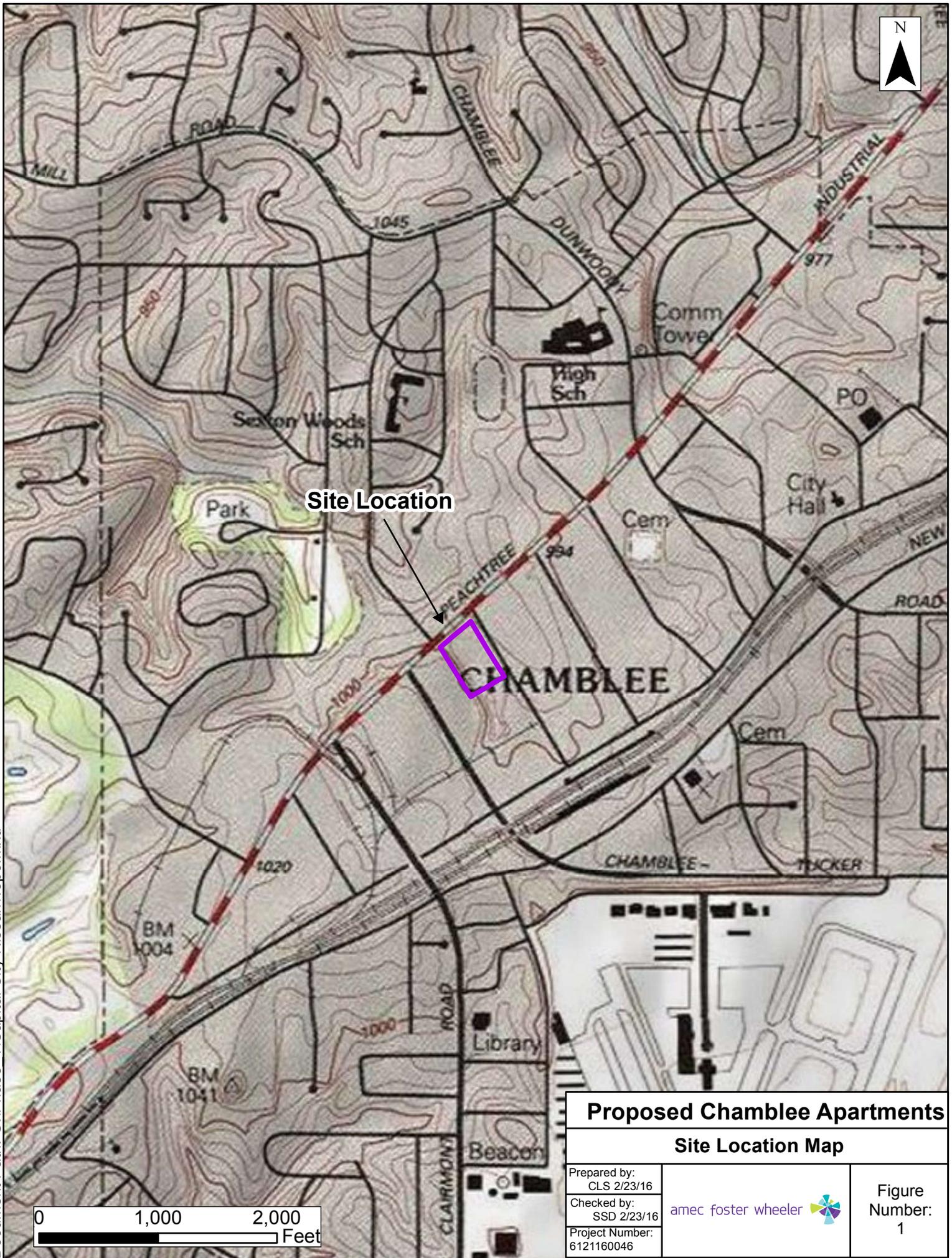
Sample ID	Type 1 RRS	Pit 2/N-7	Pit 2-N/10	Pit 2-E/5	Pit 2-E/9	Pit 2-S/5	Pit 2-S/9	Pit 2-W/5	Pit 2-W/9	
Date		12/21/2017	12/21/2017	12/21/2017	12/21/2017	12/21/2017	12/21/2017	12/21/2017	12/21/2017	12/21/2017
Depth (ft)		7	10	5	9	5	9	5	9	
Constituent										
Benzene	0.5	<b>0.02</b>	<b>0.5</b>	<b>0.028</b>	<b>2.4</b>	<b>0.037</b>	<b>0.49</b>	<b>0.012</b>	<b>0.028</b>	

**Notes:**

- RRS - HSRA Risk Reduction Standard
- ft - feet

<b>X.X</b>	- Bold values indicate constituent detected above laboratory reporting limit
<b>X.X</b>	- Yellow shaded cells indicate constituent concentration exceeds the applicable RRS

## FIGURES



### Proposed Chamblee Apartments

#### Site Location Map

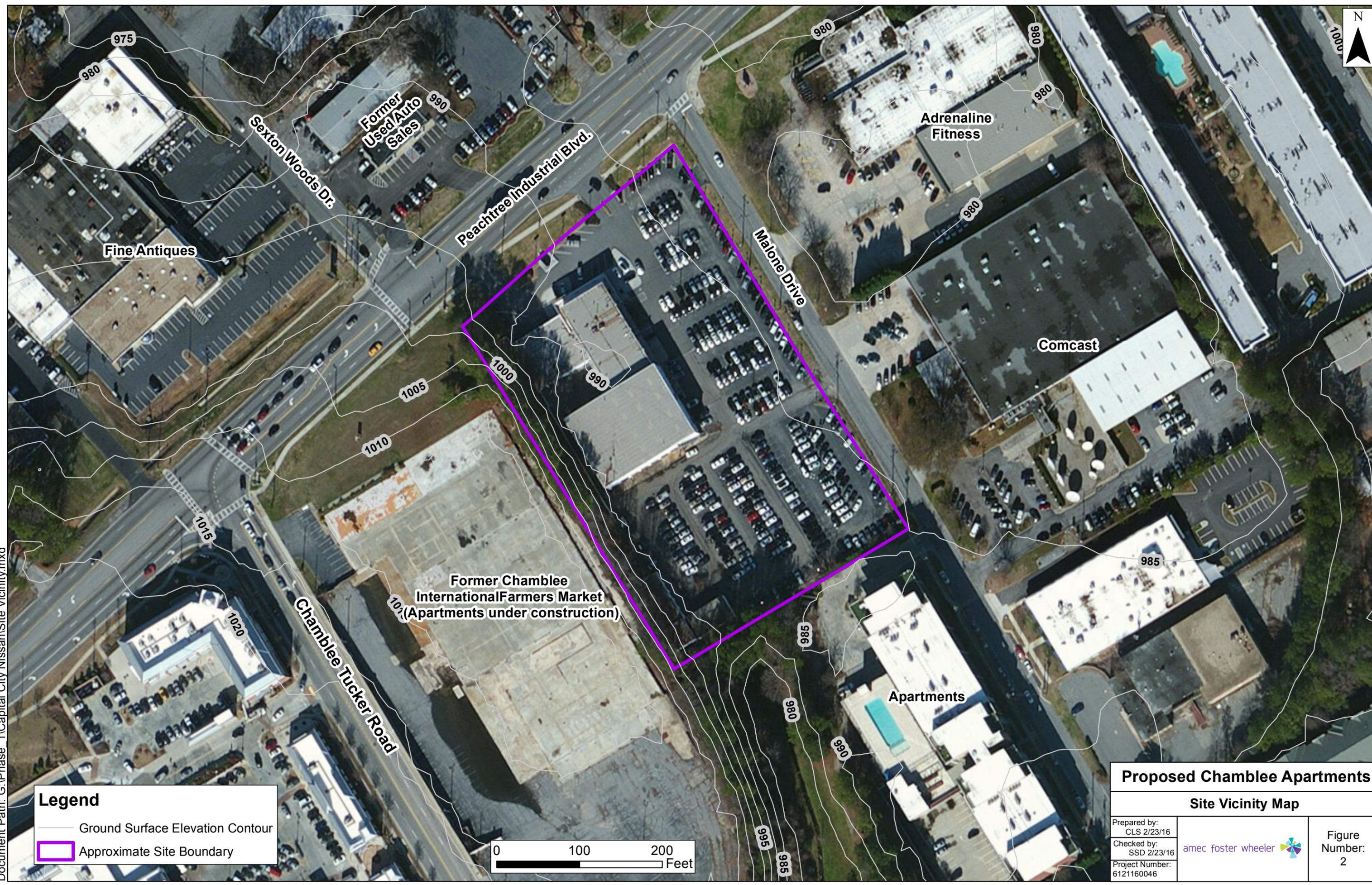
Prepared by:  
CLS 2/23/16  
Checked by:  
SSD 2/23/16  
Project Number:  
6121160046



Figure  
Number:  
1

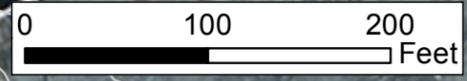


Document Path: G:\Phase\_1\Capital City Nissan\Site Vicinity.mxd



**Legend**

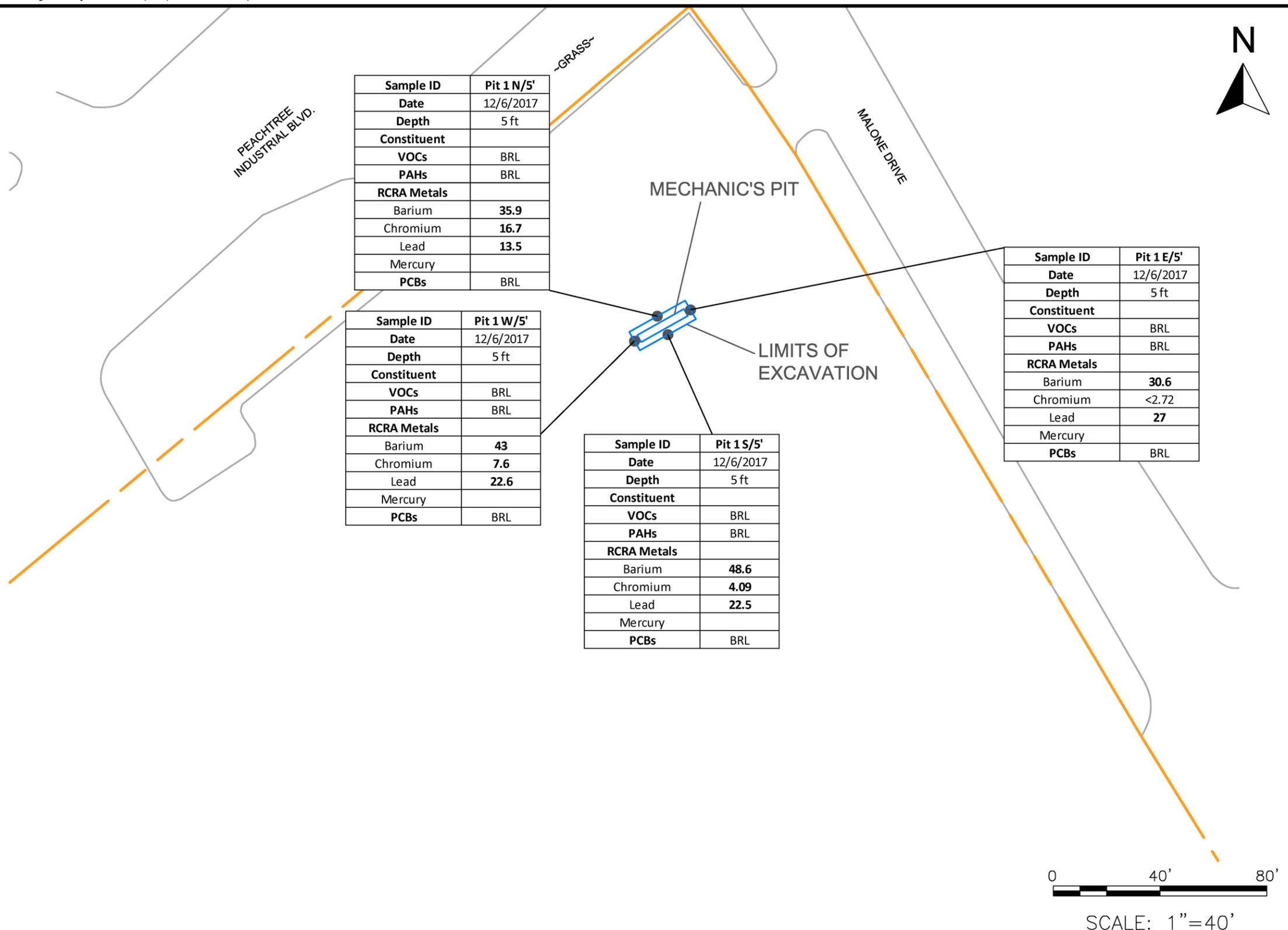
- Ground Surface Elevation Contour
- ▭ Approximate Site Boundary



**Proposed Chamblee Apartments**

**Site Vicinity Map**

Prepared by: CLS 2/23/16	amec foster wheeler 	Figure Number: 2
Checked by: SSD 2/23/16		
Project Number: 6121160046		



Sample ID	Pit 1 N/5'
Date	12/6/2017
Depth	5 ft
Constituent	
VOCs	BRL
PAHs	BRL
RCRA Metals	
Barium	35.9
Chromium	16.7
Lead	13.5
Mercury	
PCBs	BRL

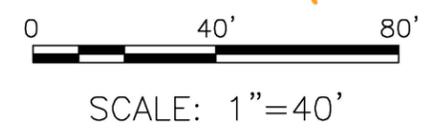
Sample ID	Pit 1 W/5'
Date	12/6/2017
Depth	5 ft
Constituent	
VOCs	BRL
PAHs	BRL
RCRA Metals	
Barium	43
Chromium	7.6
Lead	22.6
Mercury	
PCBs	BRL

Sample ID	Pit 1 S/5'
Date	12/6/2017
Depth	5 ft
Constituent	
VOCs	BRL
PAHs	BRL
RCRA Metals	
Barium	48.6
Chromium	4.09
Lead	22.5
Mercury	
PCBs	BRL

Sample ID	Pit 1 E/5'
Date	12/6/2017
Depth	5 ft
Constituent	
VOCs	BRL
PAHs	BRL
RCRA Metals	
Barium	30.6
Chromium	<2.72
Lead	27
Mercury	
PCBs	BRL

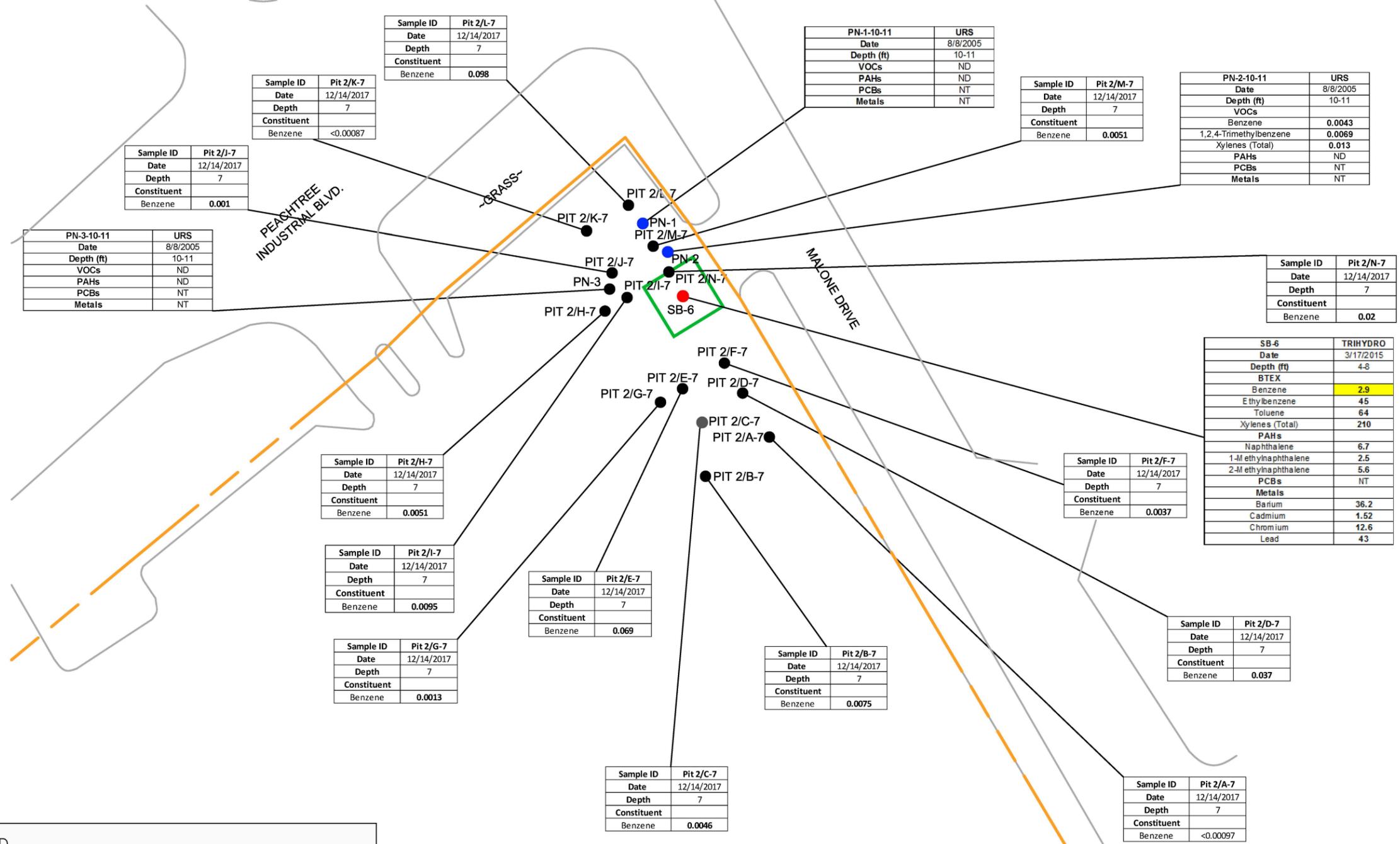
LEGEND

- CONFIRMATION SOIL SAMPLE LOCATION
- SITE BOUNDARY
- BRL NOT DETECTED ABOVE LABORATORY REPORTING LIMIT
- X.XX SOIL ANALYTICAL RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM (MG/KG)

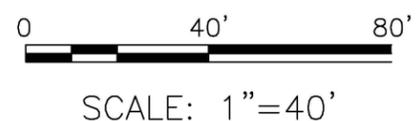


<p>PROPOSED CHAMBLEE APARTMENTS</p>	<p><b>amec foster wheeler</b> Environment &amp; Infrastructure, Inc. 1075 BIG SHANTY ROAD, NW, SUITE 100 KENNESAW, GEORGIA 30144 (770) 421-3400</p>	<p>MECHANIC'S PIT (PIT 1) SOIL ANALYTICAL DATA</p> <p>JOB NO. 6121-16-0351</p> <p>FIGURE 3</p>
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PREPARED BY/DATE: RD/MAR 2018  
 CHECKED BY/DATE: SSS/MAR 2018



LEGEND	
●	SOIL SAMPLE LOCATION - DEC 2017
●	SOIL SAMPLE LOCATION - 2015
●	SOIL SAMPLE LOCATION - 2005
---	SITE BOUNDARY
ND	NOT DETECTED ABOVE LABORATORY REPORTING LIMIT
x.xx	SOIL ANALYTICAL RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM (MG/KG)



PROPOSED  
CHAMBLEE APARTMENTS

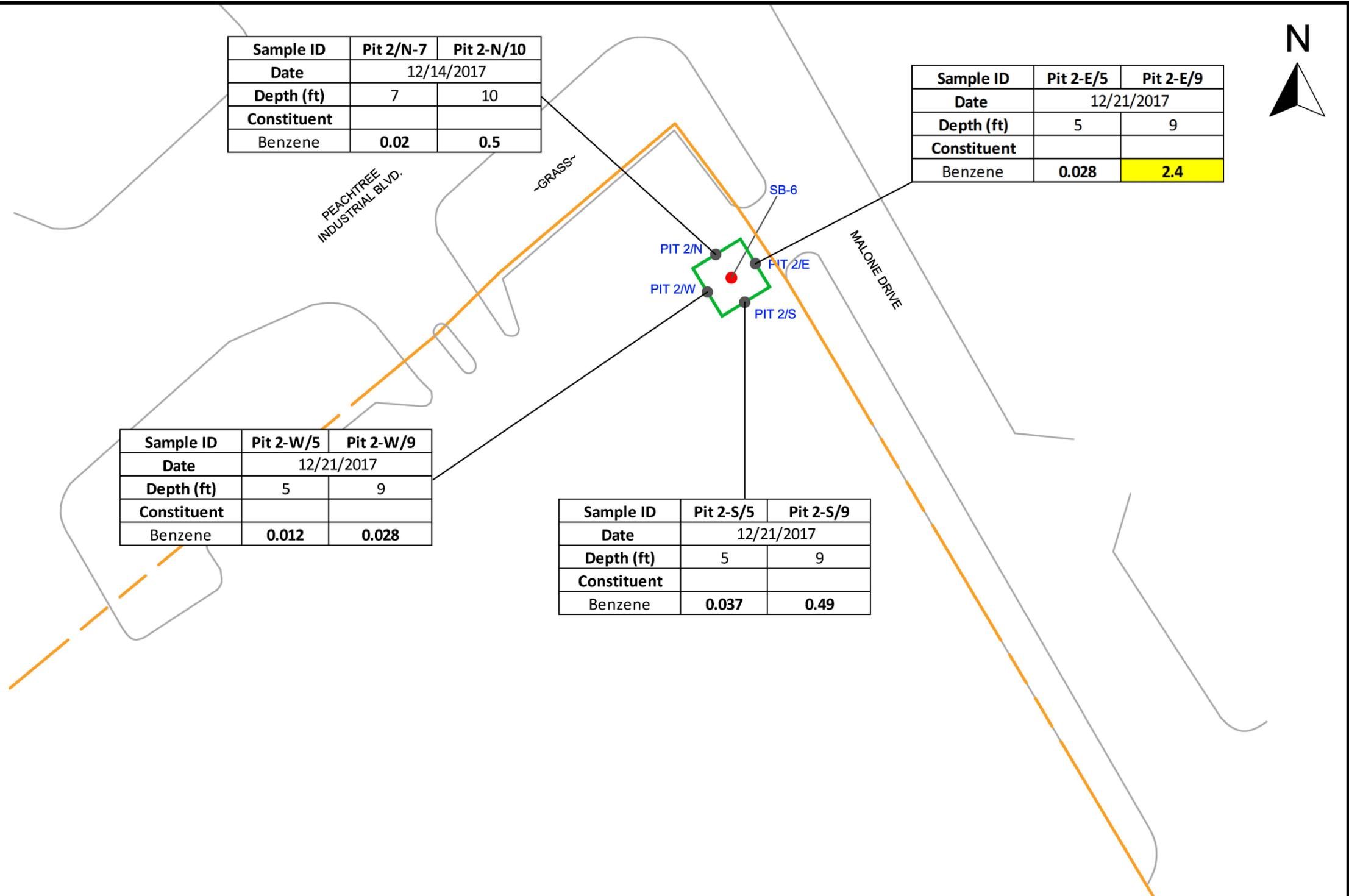
**amec foster wheeler**  
 Environment & Infrastructure, Inc.  
 1075 BIG SHANTY ROAD, NW, SUITE 100  
 KENNESAW, GEORGIA 30144 (770) 421-3400

SB-6 AREA  
SOIL DELINEATION ANALYTICAL DATA

PREPARED BY/DATE: RD/MAR 2018  
 CHECKED BY/DATE: SSD/MAR 2018

JOB NO. 6121-16-0351

FIGURE 4



Sample ID	Pit 2-N-7	Pit 2-N/10
Date	12/14/2017	
Depth (ft)	7	10
Constituent		
Benzene	0.02	0.5

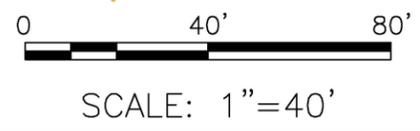
Sample ID	Pit 2-E/5	Pit 2-E/9
Date	12/21/2017	
Depth (ft)	5	9
Constituent		
Benzene	0.028	2.4

Sample ID	Pit 2-W/5	Pit 2-W/9
Date	12/21/2017	
Depth (ft)	5	9
Constituent		
Benzene	0.012	0.028

Sample ID	Pit 2-S/5	Pit 2-S/9
Date	12/21/2017	
Depth (ft)	5	9
Constituent		
Benzene	0.037	0.49

LEGEND

- CONFIRMATION SOIL SAMPLE LOCATION - DEC 2017
- SOIL SAMPLE LOCATION - 2015
- SITE BOUNDARY
- x.xx SOIL ANALYTICAL RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM (MG/KG)



PROPOSED CHAMBLEE APARTMENTS	 <b>Environment &amp; Infrastructure, Inc.</b> 1075 BIG SHANTY ROAD, NW, SUITE 100 KENNESAW, GEORGIA 30144 (770) 421-3400	SB-6 AREA SOIL CONFIRMATION SAMPLE DATA  JOB NO. 6121-16-0351
	FIGURE 5	

RD/MAR 2018  
 SSD/MAR 2018  
 PREPARED BY/DATE  
 CHECKED BY/DATE

**APPENDIX A**  
**LABORATORY REPORTS**



## ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 11, 2017

Steve Davenport  
AMEC Foster Wheeler

2677 Buford Highway NE  
Atlanta GA 30324

RE: Chamblee Apartments

Dear Steve Davenport:

Order No: 1712537

Analytical Environmental Services, Inc. received 5 samples on 12/6/2017 6:10:00 PM for the analyses presented in following report.

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

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar  
Project Manager



CHAIN OF CUSTODY

COMPANY: <u>Anee Foster Wheeler</u>		ADDRESS: <u>2677 Buford Hwy Atlanta, Ga 30324</u>			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: <u>404-873-4761</u>		EMAIL: <u>Steve.Davey@aesatlanta.com</u>			<table border="1" style="width:100%; height: 100px;"> <tr> <td style="width: 10%;">VOCs</td><td style="width: 10%;">PAHs</td><td style="width: 10%;">PCDD/PCDFs</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> <tr> <td colspan="20">PRESERVATION (see codes)</td> </tr> </table>													VOCs	PAHs	PCDD/PCDFs																			PRESERVATION (see codes)																			
VOCs	PAHs	PCDD/PCDFs																																																								
PRESERVATION (see codes)																																																										
SAMPLED BY: <u>S. Davey</u>		SIGNATURE:													REMARKS																																											
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)											REMARKS	Number of Containers																																								
		DATE	TIME																																																							
1	<u>P.I. W/ 5'</u>	<u>12/6/17</u>	<u>4:40</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																	
2	<u>P.I. E/ 5'</u>	<u>I</u>	<u>4:45</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																	
3	<u>P.I. S/ 5'</u>	<u>I</u>	<u>4:50</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																	
4	<u>P.I. W/ 5'</u>	<u>I</u>	<u>4:55</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																	
5	<u>Temp Blank</u>					<u>W</u>																																																				
6	<u>Temp Blank</u>					<u>W</u>																																																				
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RELINQUISHED BY: <u></u>		DATE/TIME: <u>12/6/17 8:10</u>		RECEIVED BY: <u></u>		DATE/TIME: <u>12/6/17 10:10</u>		PROJECT INFORMATION										RECEIPT																																								
1.				2.				PROJECT NAME: <u>Chamblee Apts</u>										Total # of Containers: <u>31</u>																																								
2.				3.				PROJECT #: _____										Turnaround Time (TAT) Request																																								
3.								SITE ADDRESS: <u>5211 Peachtree Industrial Blvd</u>										<input type="checkbox"/> Standard 5 Business Days																																								
								SEND REPORT TO: <u>S. Davey / C. Ferry</u>										<input type="checkbox"/> 2 Business Day Rush																																								
								INVOICE TO: _____										<input checked="" 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 type="checkbox"/> Fax? <input type="checkbox"/>																																								
								client FedEx UPS US mail courier Greyhound										DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>																																								
								other: _____																																																		
								QUOTE #: _____										PO#: _____																																								

**Client:** AMEC Foster Wheeler  
**Project:** Chamblee Apartments  
**Lab ID:** 1712537

**Case Narrative**

Sample Receiving Non-conformance:

Samples were received at 11.8°C, outside required temperature range of 0-6°C. Samples were received on ice, but due to being immediately delivered to the laboratory, target temperature had not been reached.

**Analytical Environmental Services, Inc**

**Date:** 11-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-N/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:40:00 PM
<b>Lab ID:</b> 1712537-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Mercury by SW7473</b>		<b>(SW7473)</b>						
Mercury	BRL	0.131		mg/Kg-dry	252525	1	12/07/2017 17:19	AS
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,1,2,2-Tetrachloroethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,1,2-Trichloroethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,1-Dichloroethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,1-Dichloroethene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,2,4-Trichlorobenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,2-Dibromo-3-chloropropane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,2-Dibromoethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,2-Dichlorobenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,2-Dichloroethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,2-Dichloropropane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,3-Dichlorobenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
1,4-Dichlorobenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
2-Butanone	BRL	46		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
2-Hexanone	BRL	9.3		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
4-Methyl-2-pentanone	BRL	9.3		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Acetone	BRL	93		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Benzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Bromodichloromethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Bromoform	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Bromomethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Carbon disulfide	BRL	9.3		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Carbon tetrachloride	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Chlorobenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Chloroethane	BRL	9.3		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Chloroform	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Chloromethane	BRL	9.3		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
cis-1,2-Dichloroethene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
cis-1,3-Dichloropropene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Cyclohexane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Dibromochloromethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Dichlorodifluoromethane	BRL	9.3		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Ethylbenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Freon-113	BRL	9.3		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Isopropylbenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
m,p-Xylene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Methyl acetate	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Methyl tert-butyl ether	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	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> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-N/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:40:00 PM
<b>Lab ID:</b> 1712537-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Methylcyclohexane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Methylene chloride	BRL	19		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
o-Xylene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Styrene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Tetrachloroethene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Toluene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
trans-1,2-Dichloroethene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
trans-1,3-Dichloropropene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Trichloroethene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Trichlorofluoromethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Vinyl chloride	BRL	9.3		ug/Kg-dry	252626	1	12/07/2017 19:35	CJ
Surr: 4-Bromofluorobenzene	89.2	65-133		%REC	252626	1	12/07/2017 19:35	CJ
Surr: Dibromofluoromethane	99.8	75.8-119		%REC	252626	1	12/07/2017 19:35	CJ
Surr: Toluene-d8	96.1	78.3-120		%REC	252626	1	12/07/2017 19:35	CJ
<b>POLYAROMATIC HYDROCARBONS SW8270D</b>		<b>(SW3550C)</b>						
Naphthalene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Acenaphthylene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
1-Methylnaphthalene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
2-Methylnaphthalene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Acenaphthene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Fluorene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Phenanthrene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Anthracene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Fluoranthene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Pyrene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Benz(a)anthracene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Chrysene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Benzo(b)fluoranthene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Benzo(k)fluoranthene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Benzo(a)pyrene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Dibenz(a,h)anthracene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Benzo(g,h,i)perylene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Indeno(1,2,3-cd)pyrene	BRL	430		ug/Kg-dry	252467	1	12/07/2017 11:41	RF
Surr: 2-Fluorobiphenyl	83.6	54.4-120		%REC	252467	1	12/07/2017 11:41	RF
Surr: 4-Terphenyl-d14	81.7	60.4-120		%REC	252467	1	12/07/2017 11:41	RF
Surr: Nitrobenzene-d5	76.9	51-120		%REC	252467	1	12/07/2017 11:41	RF
<b>METALS, TOTAL SW6010D</b>		<b>(SW3050B)</b>						
Arsenic	BRL	5.61		mg/Kg-dry	252548	1	12/08/2017 12:15	IO
Barium	35.9	5.61		mg/Kg-dry	252548	1	12/08/2017 12:15	IO

**Qualifiers:**

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- 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

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-N/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:40:00 PM
<b>Lab ID:</b> 1712537-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010D</b>					<b>(SW3050B)</b>			
Cadmium	BRL	2.80		mg/Kg-dry	252548	1	12/08/2017 12:15	IO
Chromium	16.7	2.80		mg/Kg-dry	252548	1	12/08/2017 12:15	IO
Lead	13.5	5.61		mg/Kg-dry	252548	1	12/08/2017 12:15	IO
Selenium	BRL	5.61		mg/Kg-dry	252548	1	12/08/2017 12:15	IO
Silver	BRL	2.80		mg/Kg-dry	252548	1	12/08/2017 12:15	IO
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	23.5	0		wt%	R358367	1	12/07/2017 13:00	OO

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

**Analytical Environmental Services, Inc**

Date: 11-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-E/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:45:00 PM
<b>Lab ID:</b> 1712537-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Mercury by SW7473</b>		<b>(SW7473)</b>						
Mercury	BRL	0.125		mg/Kg-dry	252525	1	12/07/2017 17:28	AS
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,1,2,2-Tetrachloroethane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,1,2-Trichloroethane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,1-Dichloroethane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,1-Dichloroethene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,2,4-Trichlorobenzene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,2-Dibromo-3-chloropropane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,2-Dibromoethane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,2-Dichlorobenzene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,2-Dichloroethane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,2-Dichloropropane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,3-Dichlorobenzene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
1,4-Dichlorobenzene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
2-Butanone	BRL	49		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
2-Hexanone	BRL	9.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
4-Methyl-2-pentanone	BRL	9.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Acetone	BRL	99		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Benzene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Bromodichloromethane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Bromoform	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Bromomethane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Carbon disulfide	BRL	9.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Carbon tetrachloride	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Chlorobenzene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Chloroethane	BRL	9.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Chloroform	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Chloromethane	BRL	9.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
cis-1,2-Dichloroethene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
cis-1,3-Dichloropropene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Cyclohexane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Dibromochloromethane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Dichlorodifluoromethane	BRL	9.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Ethylbenzene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Freon-113	BRL	9.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Isopropylbenzene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
m,p-Xylene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Methyl acetate	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Methyl tert-butyl ether	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ

**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

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-E/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:45:00 PM
<b>Lab ID:</b> 1712537-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Methylcyclohexane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Methylene chloride	BRL	20		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
o-Xylene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Styrene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Tetrachloroethene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Toluene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
trans-1,2-Dichloroethene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
trans-1,3-Dichloropropene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Trichloroethene	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Trichlorofluoromethane	BRL	4.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Vinyl chloride	BRL	9.9		ug/Kg-dry	252626	1	12/07/2017 19:59	CJ
Surr: 4-Bromofluorobenzene	90.5	65-133		%REC	252626	1	12/07/2017 19:59	CJ
Surr: Dibromofluoromethane	98.5	75.8-119		%REC	252626	1	12/07/2017 19:59	CJ
Surr: Toluene-d8	95.6	78.3-120		%REC	252626	1	12/07/2017 19:59	CJ
<b>POLYAROMATIC HYDROCARBONS SW8270D</b>		<b>(SW3550C)</b>						
Naphthalene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Acenaphthylene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
1-Methylnaphthalene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
2-Methylnaphthalene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Acenaphthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Fluorene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Phenanthrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Anthracene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Fluoranthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Pyrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Benz(a)anthracene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Chrysene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Benzo(b)fluoranthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Benzo(k)fluoranthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Benzo(a)pyrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Dibenz(a,h)anthracene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Benzo(g,h,i)perylene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Indeno(1,2,3-cd)pyrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 12:09	RF
Surr: 2-Fluorobiphenyl	60.9	54.4-120		%REC	252467	1	12/07/2017 12:09	RF
Surr: 4-Terphenyl-d14	67.8	60.4-120		%REC	252467	1	12/07/2017 12:09	RF
Surr: Nitrobenzene-d5	58.3	51-120		%REC	252467	1	12/07/2017 12:09	RF
<b>METALS, TOTAL SW6010D</b>		<b>(SW3050B)</b>						
Arsenic	BRL	5.45		mg/Kg-dry	252548	1	12/08/2017 12:19	IO
Barium	30.6	5.45		mg/Kg-dry	252548	1	12/08/2017 12:19	IO

**Qualifiers:**

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

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

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-E/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:45:00 PM
<b>Lab ID:</b> 1712537-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010D</b>					<b>(SW3050B)</b>			
Cadmium	BRL	2.72		mg/Kg-dry	252548	1	12/08/2017 12:19	IO
Chromium	BRL	2.72		mg/Kg-dry	252548	1	12/08/2017 12:19	IO
Lead	27.0	5.45		mg/Kg-dry	252548	1	12/08/2017 12:19	IO
Selenium	BRL	5.45		mg/Kg-dry	252548	1	12/08/2017 12:19	IO
Silver	BRL	2.72		mg/Kg-dry	252548	1	12/08/2017 12:19	IO
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.9	0		wt%	R358367	1	12/07/2017 13:00	OO

**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:** 11-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-5/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:50:00 PM
<b>Lab ID:</b> 1712537-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Mercury by SW7473</b>				<b>(SW7473)</b>				
Mercury	BRL	0.125		mg/Kg-dry	252525	1	12/07/2017 17:36	AS
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
1,1,1-Trichloroethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,1,2,2-Tetrachloroethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,1,2-Trichloroethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,1-Dichloroethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,1-Dichloroethene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,2,4-Trichlorobenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,2-Dibromo-3-chloropropane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,2-Dibromoethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,2-Dichlorobenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,2-Dichloroethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,2-Dichloropropane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,3-Dichlorobenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
1,4-Dichlorobenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
2-Butanone	BRL	46		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
2-Hexanone	BRL	9.2		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
4-Methyl-2-pentanone	BRL	9.2		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Acetone	BRL	92		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Benzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Bromodichloromethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Bromoform	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Bromomethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Carbon disulfide	BRL	9.2		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Carbon tetrachloride	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Chlorobenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Chloroethane	BRL	9.2		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Chloroform	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Chloromethane	BRL	9.2		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
cis-1,2-Dichloroethene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
cis-1,3-Dichloropropene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Cyclohexane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Dibromochloromethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Dichlorodifluoromethane	BRL	9.2		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Ethylbenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Freon-113	BRL	9.2		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Isopropylbenzene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
m,p-Xylene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Methyl acetate	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Methyl tert-butyl ether	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	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> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-5/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:50:00 PM
<b>Lab ID:</b> 1712537-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Methylcyclohexane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Methylene chloride	BRL	18		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
o-Xylene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Styrene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Tetrachloroethene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Toluene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
trans-1,2-Dichloroethene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
trans-1,3-Dichloropropene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Trichloroethene	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Trichlorofluoromethane	BRL	4.6		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Vinyl chloride	BRL	9.2		ug/Kg-dry	252626	1	12/07/2017 20:24	CJ
Surr: 4-Bromofluorobenzene	82.8	65-133		%REC	252626	1	12/07/2017 20:24	CJ
Surr: Dibromofluoromethane	99.9	75.8-119		%REC	252626	1	12/07/2017 20:24	CJ
Surr: Toluene-d8	97.8	78.3-120		%REC	252626	1	12/07/2017 20:24	CJ
<b>POLYAROMATIC HYDROCARBONS SW8270D</b>		<b>(SW3550C)</b>						
Naphthalene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Acenaphthylene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
1-Methylnaphthalene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
2-Methylnaphthalene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Acenaphthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Fluorene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Phenanthrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Anthracene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Fluoranthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Pyrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Benz(a)anthracene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Chrysene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Benzo(b)fluoranthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Benzo(k)fluoranthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Benzo(a)pyrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Dibenz(a,h)anthracene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Benzo(g,h,i)perylene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Indeno(1,2,3-cd)pyrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 14:53	RF
Surr: 2-Fluorobiphenyl	84.5	54.4-120		%REC	252467	1	12/07/2017 14:53	RF
Surr: 4-Terphenyl-d14	85.2	60.4-120		%REC	252467	1	12/07/2017 14:53	RF
Surr: Nitrobenzene-d5	88.2	51-120		%REC	252467	1	12/07/2017 14:53	RF
<b>METALS, TOTAL SW6010D</b>		<b>(SW3050B)</b>						
Arsenic	BRL	4.67		mg/Kg-dry	252548	1	12/08/2017 12:22	IO
Barium	48.6	4.67		mg/Kg-dry	252548	1	12/08/2017 12:22	IO

**Qualifiers:**

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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

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-5/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:50:00 PM
<b>Lab ID:</b> 1712537-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010D</b>					<b>(SW3050B)</b>			
Cadmium	BRL	2.34		mg/Kg-dry	252548	1	12/08/2017 12:22	IO
Chromium	4.09	2.34		mg/Kg-dry	252548	1	12/08/2017 12:22	IO
Lead	22.5	4.67		mg/Kg-dry	252548	1	12/08/2017 12:22	IO
Selenium	BRL	4.67		mg/Kg-dry	252548	1	12/08/2017 12:22	IO
Silver	BRL	2.34		mg/Kg-dry	252548	1	12/08/2017 12:22	IO
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.2	0		wt%	R358367	1	12/07/2017 13:00	OO

**Qualifiers:**

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- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

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

**Analytical Environmental Services, Inc**

**Date:** 11-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-W/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:55:00 PM
<b>Lab ID:</b> 1712537-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Mercury by SW7473</b>		<b>(SW7473)</b>						
Mercury	BRL	0.125		mg/Kg-dry	252525	1	12/07/2017 17:45	AS
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
2-Butanone	BRL	39		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
2-Hexanone	BRL	7.7		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
4-Methyl-2-pentanone	BRL	7.7		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Acetone	BRL	77		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Benzene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Bromodichloromethane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Bromoform	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Bromomethane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Carbon disulfide	BRL	7.7		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Chlorobenzene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Chloroethane	BRL	7.7		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Chloroform	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Chloromethane	BRL	7.7		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Cyclohexane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Dibromochloromethane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Dichlorodifluoromethane	BRL	7.7		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Ethylbenzene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Freon-113	BRL	7.7		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Isopropylbenzene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
m,p-Xylene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Methyl acetate	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
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- B Analyte detected in the associated method blank
- > Greater than Result value

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

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-W/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:55:00 PM
<b>Lab ID:</b> 1712537-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5035)</b>					
Methylcyclohexane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Methylene chloride	BRL	15		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
o-Xylene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Styrene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Tetrachloroethene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Toluene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Trichloroethene	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Vinyl chloride	BRL	7.7		ug/Kg-dry	252626	1	12/07/2017 20:49	CJ
Surr: 4-Bromofluorobenzene	86.3	65-133		%REC	252626	1	12/07/2017 20:49	CJ
Surr: Dibromofluoromethane	98.8	75.8-119		%REC	252626	1	12/07/2017 20:49	CJ
Surr: Toluene-d8	97.2	78.3-120		%REC	252626	1	12/07/2017 20:49	CJ
<b>POLYAROMATIC HYDROCARBONS SW8270D</b>			<b>(SW3550C)</b>					
Naphthalene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Acenaphthylene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
1-Methylnaphthalene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
2-Methylnaphthalene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Acenaphthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Fluorene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Phenanthrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Anthracene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Fluoranthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Pyrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Benz(a)anthracene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Chrysene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Benzo(b)fluoranthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Benzo(k)fluoranthene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Benzo(a)pyrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Dibenz(a,h)anthracene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Benzo(g,h,i)perylene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Indeno(1,2,3-cd)pyrene	BRL	410		ug/Kg-dry	252467	1	12/07/2017 15:20	RF
Surr: 2-Fluorobiphenyl	78.6	54.4-120		%REC	252467	1	12/07/2017 15:20	RF
Surr: 4-Terphenyl-d14	83.1	60.4-120		%REC	252467	1	12/07/2017 15:20	RF
Surr: Nitrobenzene-d5	75.8	51-120		%REC	252467	1	12/07/2017 15:20	RF
<b>METALS, TOTAL SW6010D</b>			<b>(SW3050B)</b>					
Arsenic	BRL	4.06		mg/Kg-dry	252548	1	12/08/2017 12:26	IO
Barium	43.0	4.06		mg/Kg-dry	252548	1	12/08/2017 12:26	IO

**Qualifiers:**

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

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

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-W/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:55:00 PM
<b>Lab ID:</b> 1712537-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>METALS, TOTAL SW6010D</b>					<b>(SW3050B)</b>			
Cadmium	BRL	2.03		mg/Kg-dry	252548	1	12/08/2017 12:26	IO
Chromium	7.60	2.03		mg/Kg-dry	252548	1	12/08/2017 12:26	IO
Lead	22.6	4.06		mg/Kg-dry	252548	1	12/08/2017 12:26	IO
Selenium	BRL	4.06		mg/Kg-dry	252548	1	12/08/2017 12:26	IO
Silver	BRL	2.03		mg/Kg-dry	252548	1	12/08/2017 12:26	IO
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.9	0		wt%	R358367	1	12/07/2017 13:00	OO

**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> AMEC Foster Wheeler	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017
<b>Lab ID:</b> 1712537-005	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,1,2-Trichloroethane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,1-Dichloroethane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,1-Dichloroethene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,2-Dibromoethane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,2-Dichlorobenzene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,2-Dichloroethane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,2-Dichloropropane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,3-Dichlorobenzene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
1,4-Dichlorobenzene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
2-Butanone	BRL	50		ug/L	252537	1	12/07/2017 19:24	OM
2-Hexanone	BRL	10		ug/L	252537	1	12/07/2017 19:24	OM
4-Methyl-2-pentanone	BRL	10		ug/L	252537	1	12/07/2017 19:24	OM
Acetone	BRL	50		ug/L	252537	1	12/07/2017 19:24	OM
Benzene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Bromodichloromethane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Bromoform	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Bromomethane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Carbon disulfide	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Carbon tetrachloride	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Chlorobenzene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Chloroethane	BRL	10		ug/L	252537	1	12/07/2017 19:24	OM
Chloroform	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Chloromethane	BRL	10		ug/L	252537	1	12/07/2017 19:24	OM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Cyclohexane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Dibromochloromethane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Dichlorodifluoromethane	BRL	10		ug/L	252537	1	12/07/2017 19:24	OM
Ethylbenzene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Freon-113	BRL	10		ug/L	252537	1	12/07/2017 19:24	OM
Isopropylbenzene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
m,p-Xylene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Methyl acetate	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Methyl tert-butyl ether	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Methylcyclohexane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Methylene chloride	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
o-Xylene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM

**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> AMEC Foster Wheeler	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017
<b>Lab ID:</b> 1712537-005	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>				
Styrene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Tetrachloroethene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Toluene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Trichloroethene	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Trichlorofluoromethane	BRL	5.0		ug/L	252537	1	12/07/2017 19:24	OM
Vinyl chloride	BRL	2.0		ug/L	252537	1	12/07/2017 19:24	OM
Surr: 4-Bromofluorobenzene	91.1	68-127		%REC	252537	1	12/07/2017 19:24	OM
Surr: Dibromofluoromethane	96.3	84.4-122		%REC	252537	1	12/07/2017 19:24	OM
Surr: Toluene-d8	101	80.1-116		%REC	252537	1	12/07/2017 19:24	OM

**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

**SUMMARY OF ANALYTES DETECTED**

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
<b>Client Sample ID:</b> PIT 1-N/5'				<b>Lab ID:</b>	1712537-001		
<b>Collection Date:</b> 12/6/2017 4:40:00 PM				<b>Matrix:</b>	Soil		
<b>METALS, TOTAL SW6010D</b>				<b>(SW3050B)</b>			
Barium	35.9		0.0888	5.61	mg/Kg-dry	252548	1
Chromium	16.7		0.0360	2.80	mg/Kg-dry	252548	1
Lead	13.5		0.0758	5.61	mg/Kg-dry	252548	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	23.5		0	0	wt%	R358367	1
<b>Client Sample ID:</b> PIT 1-E/5'				<b>Lab ID:</b>	1712537-002		
<b>Collection Date:</b> 12/6/2017 4:45:00 PM				<b>Matrix:</b>	Soil		
<b>METALS, TOTAL SW6010D</b>				<b>(SW3050B)</b>			
Barium	30.6		0.0863	5.45	mg/Kg-dry	252548	1
Lead	27.0		0.0736	5.45	mg/Kg-dry	252548	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	19.9		0	0	wt%	R358367	1
<b>Client Sample ID:</b> PIT 1-5/5'				<b>Lab ID:</b>	1712537-003		
<b>Collection Date:</b> 12/6/2017 4:50:00 PM				<b>Matrix:</b>	Soil		
<b>METALS, TOTAL SW6010D</b>				<b>(SW3050B)</b>			
Barium	48.6		0.0740	4.67	mg/Kg-dry	252548	1
Chromium	4.09		0.0300	2.34	mg/Kg-dry	252548	1
Lead	22.5		0.0632	4.67	mg/Kg-dry	252548	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	20.2		0	0	wt%	R358367	1
<b>Client Sample ID:</b> PIT 1-W/5'				<b>Lab ID:</b>	1712537-004		
<b>Collection Date:</b> 12/6/2017 4:55:00 PM				<b>Matrix:</b>	Soil		
<b>METALS, TOTAL SW6010D</b>				<b>(SW3050B)</b>			
Barium	43.0		0.0643	4.06	mg/Kg-dry	252548	1
Chromium	7.60		0.0260	2.03	mg/Kg-dry	252548	1
Lead	22.6		0.0549	4.06	mg/Kg-dry	252548	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	19.9		0	0	wt%	R358367	1

**Qualifiers:**

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

### SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: \_\_\_\_\_

AES Work Order Number: \_\_\_\_\_

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature \_\_\_\_\_ °C    Cooler 2 Temperature \_\_\_\_\_ °C    Cooler 3 Temperature \_\_\_\_\_ °C    Cooler 4 Temperature \_\_\_\_\_ °C  
 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). \_\_\_\_\_

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: \_\_\_\_\_

I certify that I have completed sections 16-27 (dated initials). \_\_\_\_\_

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). \_\_\_\_\_

Client: AMEC Foster Wheeler  
 Project Name: Chamblee Apartments  
 Workorder: 1712537

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 252467

Sample ID: <b>MB-252467</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358268</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>252467</b>	Analysis Date: <b>12/06/2017</b>	Seq No: <b>7898046</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	BRL	330									
2-Methylnaphthalene	BRL	330									
Acenaphthene	BRL	330									
Acenaphthylene	BRL	330									
Anthracene	BRL	330									
Benz(a)anthracene	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Benzo(g,h,i)perylene	BRL	330									
Benzo(k)fluoranthene	BRL	330									
Chrysene	BRL	330									
Dibenz(a,h)anthracene	BRL	330									
Fluoranthene	BRL	330									
Fluorene	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Naphthalene	BRL	330									
Phenanthrene	BRL	330									
Pyrene	BRL	330									
Surr: 2-Fluorobiphenyl	1439	0	1667		86.3	54.4	120				
Surr: 4-Terphenyl-d14	1464	0	1667		87.8	60.4	120				
Surr: Nitrobenzene-d5	1500	0	1667		90.0	51	120				

Sample ID: <b>LCS-252467</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358268</b>							
Sample Type: <b>LCS</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>252467</b>	Analysis Date: <b>12/06/2017</b>	Seq No: <b>7898047</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1336	330	1667		80.2	67.6	120				
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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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252467**

Sample ID: <b>LCS-252467</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358268</b>							
SampleType: <b>LCS</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>252467</b>	Analysis Date: <b>12/06/2017</b>	Seq No: <b>7898047</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Methylnaphthalene	1354	330	1667		81.3	66.9	120				
Acenaphthene	1422	330	1667		85.3	67.5	120				
Acenaphthylene	1442	330	1667		86.5	66.5	120				
Anthracene	1508	330	1667		90.5	70	120				
Benz(a)anthracene	1315	330	1667		78.9	70	120				
Benzo(a)pyrene	1440	330	1667		86.4	70	120				
Benzo(b)fluoranthene	1359	330	1667		81.6	64.9	120				
Benzo(g,h,i)perylene	1477	330	1667		88.6	70	120				
Benzo(k)fluoranthene	1508	330	1667		90.5	70	120				
Chrysene	1361	330	1667		81.6	68.3	120				
Dibenz(a,h)anthracene	1439	330	1667		86.3	70	120				
Fluoranthene	1472	330	1667		88.3	70	120				
Fluorene	1445	330	1667		86.7	69.5	120				
Indeno(1,2,3-cd)pyrene	1436	330	1667		86.1	70	120				
Naphthalene	1329	330	1667		79.7	62.8	120				
Phenanthrene	1459	330	1667		87.5	70	120				
Pyrene	1425	330	1667		85.5	70	120				
Surr: 2-Fluorobiphenyl	1390	0	1667		83.4	54.4	120				
Surr: 4-Terphenyl-d14	1376	0	1667		82.6	60.4	120				
Surr: Nitrobenzene-d5	1429	0	1667		85.7	51	120				

Sample ID: <b>1712261-001BMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358268</b>							
SampleType: <b>MS</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>252467</b>	Analysis Date: <b>12/06/2017</b>	Seq No: <b>7899261</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1596	400	2017		79.1	57.1	120				
2-Methylnaphthalene	1569	400	2017		77.8	54.9	120				
Acenaphthene	1657	400	2017		82.1	51.4	120				

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

**Client:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252467**

Sample ID: <b>1712261-001BMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358268</b>							
SampleType: <b>MS</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>252467</b>	Analysis Date: <b>12/06/2017</b>	Seq No: <b>7899261</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Acenaphthylene	1676	400	2017		83.1	56.5	120				
Anthracene	1723	400	2017		85.4	61.5	120				
Benz(a)anthracene	1573	400	2017		78.0	59.6	120				
Benzo(a)pyrene	1649	400	2017		81.7	63.2	120				
Benzo(b)fluoranthene	1599	400	2017		79.3	52.3	124				
Benzo(g,h,i)perylene	1417	400	2017		70.2	50.7	120				
Benzo(k)fluoranthene	1595	400	2017		79.1	59.2	120				
Chrysene	1538	400	2017		76.2	56.5	120				
Dibenz(a,h)anthracene	1483	400	2017		73.5	51.2	119				
Fluoranthene	1692	400	2017		83.9	58.1	120				
Fluorene	1668	400	2017		82.7	52.6	120				
Indeno(1,2,3-cd)pyrene	1499	400	2017		74.3	51.7	119				
Naphthalene	1516	400	2017		75.1	49.9	120				
Phenanthrene	1638	400	2017		81.2	57.4	120				
Pyrene	1630	400	2017		80.8	56.8	120				
Surr: 2-Fluorobiphenyl	1597	0	2018		79.1	54.4	120				
Surr: 4-Terphenyl-d14	1557	0	2018		77.2	60.4	120				
Surr: Nitrobenzene-d5	1503	0	2018		74.5	51	120				

Sample ID: <b>1712261-001BMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358268</b>							
SampleType: <b>MSD</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>252467</b>	Analysis Date: <b>12/06/2017</b>	Seq No: <b>7899262</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1-Methylnaphthalene	1463	400	2017		72.5	57.1	120	1596	8.71	49.8	
2-Methylnaphthalene	1444	400	2017		71.6	54.9	120	1569	8.30	54.2	
Acenaphthene	1505	400	2017		74.6	51.4	120	1657	9.65	35.6	
Acenaphthylene	1541	400	2017		76.4	56.5	120	1676	8.40	26.4	
Anthracene	1653	400	2017		81.9	61.5	120	1723	4.14	24.3	

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

**Client:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252467**

Sample ID: <b>1712261-001BMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358268</b>							
SampleType: <b>MSD</b>	TestCode: <b>POLYAROMATIC HYDROCARBONS SW8270D</b>	BatchID: <b>252467</b>	Analysis Date: <b>12/06/2017</b>	Seq No: <b>7899262</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benz(a)anthracene	1483	400	2017		73.5	59.6	120	1573	5.89	24.8	
Benzo(a)pyrene	1587	400	2017		78.7	63.2	120	1649	3.79	21.8	
Benzo(b)fluoranthene	1469	400	2017		72.8	52.3	124	1599	8.47	35.2	
Benzo(g,h,i)perylene	1395	400	2017		69.1	50.7	120	1417	1.55	27.7	
Benzo(k)fluoranthene	1596	400	2017		79.1	59.2	120	1595	0.051	31.8	
Chrysene	1476	400	2017		73.2	56.5	120	1538	4.07	32.7	
Dibenz(a,h)anthracene	1435	400	2017		71.1	51.2	119	1483	3.29	34.8	
Fluoranthene	1645	400	2017		81.5	58.1	120	1692	2.83	34.2	
Fluorene	1557	400	2017		77.2	52.6	120	1668	6.86	52.9	
Indeno(1,2,3-cd)pyrene	1453	400	2017		72.0	51.7	119	1499	3.12	35.2	
Naphthalene	1382	400	2017		68.5	49.9	120	1516	9.19	54.6	
Phenanthrene	1578	400	2017		78.2	57.4	120	1638	3.74	51.4	
Pyrene	1546	400	2017		76.6	56.8	120	1630	5.29	33.8	
Surr: 2-Fluorobiphenyl	1484	0	2018		73.6	54.4	120	1597	0	0	
Surr: 4-Terphenyl-d14	1466	0	2018		72.7	60.4	120	1557	0	0	
Surr: Nitrobenzene-d5	1386	0	2018		68.7	51	120	1503	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252525**

Sample ID: <b>MB-252525</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358357</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Mercury by SW7473</b>	BatchID: <b>252525</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901889</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.100

Sample ID: <b>LCS-252525</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358357</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Mercury by SW7473</b>	BatchID: <b>252525</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901890</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.9157 0.100 1.000 91.6 80 120

Sample ID: <b>1712520-001AMS</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358357</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Mercury by SW7473</b>	BatchID: <b>252525</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901892</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.8711 0.106 1.037 0.05803 78.4 80 120 S

Sample ID: <b>1712520-001AMSD</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358357</b>							
SampleType: <b>MSD</b>	TestCode: <b>Total Mercury by SW7473</b>	BatchID: <b>252525</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901893</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.8646 0.106 1.039 0.05803 77.6 80 120 0.8711 0.755 20 S

<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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252537**

Sample ID: <b>MB-252537</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358348</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252537</b>	Analysis Date: <b>12/06/2017</b>	Seq No: <b>7901241</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252537**

Sample ID: <b>MB-252537</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358348</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252537</b>	Analysis Date: <b>12/06/2017</b>	Seq No: <b>7901241</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	43.74	0	50.00		87.5	68	127				
Surr: Dibromofluoromethane	56.88	0	50.00		114	84.4	122				
Surr: Toluene-d8	47.88	0	50.00		95.8	80.1	116				

<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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252537**

Sample ID: <b>LCS-252537</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358348</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252537</b>	Analysis Date: <b>12/06/2017</b>	Seq No: <b>7901242</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	53.13	5.0	50.00		106	69	136				
Benzene	48.26	5.0	50.00		96.5	73.7	126				
Chlorobenzene	55.61	5.0	50.00		111	73.5	124				
Toluene	51.31	5.0	50.00		103	76.8	125				
Trichloroethene	55.90	5.0	50.00		112	70.9	124				
Surr: 4-Bromofluorobenzene	46.57	0	50.00		93.1	68	127				
Surr: Dibromofluoromethane	55.07	0	50.00		110	84.4	122				
Surr: Toluene-d8	48.00	0	50.00		96.0	80.1	116				

Sample ID: <b>1712066-016AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358334</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252537</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901268</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.09	5.0	50.00		100	65.7	143				
Benzene	44.87	5.0	50.00		89.7	66.1	137				
Chlorobenzene	49.59	5.0	50.00		99.2	70.9	132				
Toluene	61.29	5.0	50.00	11.94	98.7	63.8	141				
Trichloroethene	54.73	5.0	50.00	2.350	105	70.6	128				
Surr: 4-Bromofluorobenzene	45.61	0	50.00		91.2	68	127				
Surr: Dibromofluoromethane	52.83	0	50.00		106	84.4	122				
Surr: Toluene-d8	47.65	0	50.00		95.3	80.1	116				

Sample ID: <b>1712066-016AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358334</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252537</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901269</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	42.83	5.0	50.00		85.7	65.7	143	50.09	15.6	17.7	
Benzene	43.05	5.0	50.00		86.1	66.1	137	44.87	4.14	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252537**

Sample ID: <b>1712066-016AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/06/2017</b>	Run No: <b>358334</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252537</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901269</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	49.64	5.0	50.00		99.3	70.9	132	49.59	0.101	20	
Toluene	60.31	5.0	50.00	11.94	96.7	63.8	141	61.29	1.61	20	
Trichloroethene	53.84	5.0	50.00	2.350	103	70.6	128	54.73	1.64	20	
Surr: 4-Bromofluorobenzene	46.19	0	50.00		92.4	68	127	45.61	0	0	
Surr: Dibromofluoromethane	54.66	0	50.00		109	84.4	122	52.83	0	0	
Surr: Toluene-d8	47.60	0	50.00		95.2	80.1	116	47.65	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252548**

Sample ID: <b>MB-252548</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358456</b>							
SampleType: <b>MBLK</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>252548</b>	Analysis Date: <b>12/08/2017</b>	Seq No: <b>7902724</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	5.00									
Barium	BRL	5.00									
Cadmium	BRL	2.50									
Chromium	BRL	2.50									
Lead	BRL	5.00									
Selenium	BRL	5.00									
Silver	BRL	2.50									

Sample ID: <b>LCS-252548</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358456</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>252548</b>	Analysis Date: <b>12/08/2017</b>	Seq No: <b>7902725</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	47.58	5.00	50.00		95.2	80	120				
Barium	49.21	5.00	50.00		98.4	80	120				
Cadmium	48.12	2.50	50.00		96.2	80	120				
Chromium	49.75	2.50	50.00	0.3992	98.7	80	120				
Lead	48.21	5.00	50.00		96.4	80	120				
Selenium	47.77	5.00	50.00		95.5	80	120				
Silver	4.781	2.50	5.000		95.6	80	120				

Sample ID: <b>1712327-003AMS</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358456</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>252548</b>	Analysis Date: <b>12/08/2017</b>	Seq No: <b>7902727</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	186.7	20.9	209.2	2.062	88.2	75	125				
Barium	250.4	20.9	209.2	55.06	93.4	75	125				
Cadmium	194.0	10.5	209.2		92.8	75	125				
Chromium	362.6	10.5	209.2	165.6	94.2	75	125				

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

**Client:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252548**

Sample ID: <b>1712327-003AMS</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358456</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>252548</b>	Analysis Date: <b>12/08/2017</b>	Seq No: <b>7902727</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	197.7	20.9	209.2	15.46	87.1	75	125				
Selenium	179.7	20.9	209.2		85.9	75	125				
Silver	19.96	10.5	20.92	0.7824	91.7	75	125				

Sample ID: <b>1712327-003AMSD</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358456</b>							
SampleType: <b>MSD</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>252548</b>	Analysis Date: <b>12/08/2017</b>	Seq No: <b>7902728</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	190.5	20.9	209.1	2.062	90.1	75	125	186.7	2.05	20	
Barium	253.1	20.9	209.1	55.06	94.7	75	125	250.4	1.05	20	
Cadmium	196.2	10.5	209.1		93.8	75	125	194.0	1.09	20	
Chromium	367.1	10.5	209.1	165.6	96.3	75	125	362.6	1.22	20	
Lead	199.5	20.9	209.1	15.46	88.0	75	125	197.7	0.893	20	
Selenium	182.2	20.9	209.1		87.1	75	125	179.7	1.37	20	
Silver	20.13	10.5	20.91	0.7824	92.5	75	125	19.96	0.853	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252626**

Sample ID: <b>MB-252626</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902428</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	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									

<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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252626**

Sample ID: <b>MB-252626</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902428</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	44.00	0	50.00		88.0	65	133				
Surr: Dibromofluoromethane	49.30	0	50.00		98.6	75.8	119				
Surr: Toluene-d8	49.06	0	50.00		98.1	78.3	120				

<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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252626**

Sample ID: <b>LCS-252626</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902425</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	53.34	5.0	50.00		107	64.8	138				
Benzene	49.93	5.0	50.00		99.9	70	126				
Chlorobenzene	51.15	5.0	50.00		102	70	124				
Toluene	52.24	5.0	50.00		104	70.4	127				
Trichloroethene	49.67	5.0	50.00		99.3	70.4	129				
Surr: 4-Bromofluorobenzene	44.39	0	50.00		88.8	65	133				
Surr: Dibromofluoromethane	47.72	0	50.00		95.4	75.8	119				
Surr: Toluene-d8	47.46	0	50.00		94.9	78.3	120				

Sample ID: <b>1712215-003AMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902426</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.51	5.6	55.90		103	58.3	138				
Benzene	52.30	5.6	55.90		93.6	66.2	127				
Chlorobenzene	51.96	5.6	55.90		93.0	66	124				
Toluene	52.69	5.6	55.90		94.3	67.4	127				
Trichloroethene	50.70	5.6	55.90		90.7	64.9	127				
Surr: 4-Bromofluorobenzene	48.84	0	55.90		87.4	65	133				
Surr: Dibromofluoromethane	53.70	0	55.90		96.1	75.8	119				
Surr: Toluene-d8	54.19	0	55.90		96.9	78.3	120				

Sample ID: <b>1712215-003AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902427</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.65	5.6	55.90		108	58.3	138	57.51	5.32	20.2	
Benzene	55.65	5.6	55.90		99.6	66.2	127	52.30	6.21	18.6	

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

**Client:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712537

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252626**

Sample ID: <b>1712215-003AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902427</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	55.99	5.6	55.90		100	66	124	51.96	7.46	20	
Toluene	56.63	5.6	55.90		101	67.4	127	52.69	7.20	20	
Trichloroethene	53.90	5.6	55.90		96.4	64.9	127	50.70	6.11	20	
Surr: 4-Bromofluorobenzene	47.07	0	55.90		84.2	65	133	48.84	0	0	
Surr: Dibromofluoromethane	54.37	0	55.90		97.3	75.8	119	53.70	0	0	
Surr: Toluene-d8	52.91	0	55.90		94.7	78.3	120	54.19	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.**

December 11, 2017

Steve Davenport  
AMEC Foster Wheeler  
2677 Buford Highway NE  
Atlanta GA 30324

RE: Chamblee Apartments

Dear Steve Davenport:

Order No: 1712538

Analytical Environmental Services, Inc. received 2 samples on 12/6/2017 6:10:00 PM for the analyses presented in following report.

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

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar  
Project Manager



**Client:** AMEC Foster Wheeler  
**Project:** Chamblee Apartments  
**Lab ID:** 1712538

**Case Narrative**

Sample Receiving Non-conformance:

Samples were received at 11.8°C, outside required temperature range of 0-6°C. Samples were received on ice, but due to being immediately delivered to the laboratory, target temperature had not been reached.

**Analytical Environmental Services, Inc**

Date: 11-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 3:45:00 PM
<b>Lab ID:</b> 1712538-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Mercury by SW7473</b>				<b>(SW7473)</b>				
Mercury	0.135	0.127		mg/Kg-dry	252525	1	12/07/2017 17:54	AS
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
1,1,1-Trichloroethane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,1,2,2-Tetrachloroethane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,1,2-Trichloroethane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,1-Dichloroethane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,1-Dichloroethene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,2,4-Trichlorobenzene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,2-Dibromo-3-chloropropane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,2-Dibromoethane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,2-Dichlorobenzene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,2-Dichloroethane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,2-Dichloropropane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,3-Dichlorobenzene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
1,4-Dichlorobenzene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
2-Butanone	BRL	3300		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
2-Hexanone	BRL	660		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
4-Methyl-2-pentanone	BRL	660		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Acetone	BRL	6600		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Benzene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Bromodichloromethane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Bromoform	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Bromomethane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Carbon disulfide	BRL	660		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Carbon tetrachloride	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Chlorobenzene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Chloroethane	BRL	660		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Chloroform	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Chloromethane	BRL	660		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
cis-1,2-Dichloroethene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
cis-1,3-Dichloropropene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Cyclohexane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Dibromochloromethane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Dichlorodifluoromethane	BRL	660		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Ethylbenzene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Freon-113	BRL	660		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Isopropylbenzene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
m,p-Xylene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Methyl acetate	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Methyl tert-butyl ether	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	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> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 3:45:00 PM
<b>Lab ID:</b> 1712538-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Methylcyclohexane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Methylene chloride	BRL	1300		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
o-Xylene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Styrene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Tetrachloroethene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Toluene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
trans-1,2-Dichloroethene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
trans-1,3-Dichloropropene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Trichloroethene	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Trichlorofluoromethane	BRL	330		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Vinyl chloride	BRL	660		ug/Kg-dry	252599	50	12/07/2017 16:01	CJ
Surr: 4-Bromofluorobenzene	103	65-133		%REC	252599	50	12/07/2017 16:01	CJ
Surr: Dibromofluoromethane	106	75.8-119		%REC	252599	50	12/07/2017 16:01	CJ
Surr: Toluene-d8	91.8	78.3-120		%REC	252599	50	12/07/2017 16:01	CJ
<b>POLYCHLORINATED BIPHENYLS SW8082A</b>		<b>(SW3550C)</b>						
Aroclor 1016	BRL	42		ug/Kg-dry	252439	1	12/08/2017 11:00	SH
Aroclor 1221	BRL	42		ug/Kg-dry	252439	1	12/08/2017 11:00	SH
Aroclor 1232	BRL	42		ug/Kg-dry	252439	1	12/08/2017 11:00	SH
Aroclor 1242	BRL	42		ug/Kg-dry	252439	1	12/08/2017 11:00	SH
Aroclor 1248	BRL	42		ug/Kg-dry	252439	1	12/08/2017 11:00	SH
Aroclor 1254	BRL	42		ug/Kg-dry	252439	1	12/08/2017 11:00	SH
Aroclor 1260	150	42		ug/Kg-dry	252439	1	12/08/2017 11:00	SH
Surr: Decachlorobiphenyl	60.1	45.6-131		%REC	252439	1	12/08/2017 11:00	SH
Surr: Tetrachloro-m-xylene	72.5	47.1-130		%REC	252439	1	12/08/2017 11:00	SH
<b>METALS, TOTAL SW6010D</b>		<b>(SW3050B)</b>						
Arsenic	BRL	5.42		mg/Kg-dry	252548	1	12/08/2017 12:30	IO
Barium	135	5.42		mg/Kg-dry	252548	1	12/08/2017 12:30	IO
Cadmium	BRL	2.71		mg/Kg-dry	252548	1	12/08/2017 12:30	IO
Chromium	18.0	2.71		mg/Kg-dry	252548	1	12/08/2017 12:30	IO
Lead	515	5.42		mg/Kg-dry	252548	1	12/08/2017 12:30	IO
Selenium	BRL	5.42		mg/Kg-dry	252548	1	12/08/2017 12:30	IO
Silver	BRL	2.71		mg/Kg-dry	252548	1	12/08/2017 12:30	IO
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	21.0	0		wt%	R358367	1	12/07/2017 13:00	OO

**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:** 11-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 2
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 3:55:00 PM
<b>Lab ID:</b> 1712538-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Total Mercury by SW7473</b>				<b>(SW7473)</b>				
Mercury	BRL	0.124		mg/Kg-dry	252525	1	12/07/2017 18:03	AS
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
1,1,1-Trichloroethane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,1,2,2-Tetrachloroethane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,1,2-Trichloroethane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,1-Dichloroethane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,1-Dichloroethene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,2,4-Trichlorobenzene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,2-Dibromo-3-chloropropane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,2-Dibromoethane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,2-Dichlorobenzene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,2-Dichloroethane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,2-Dichloropropane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,3-Dichlorobenzene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
1,4-Dichlorobenzene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
2-Butanone	BRL	45		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
2-Hexanone	BRL	9.0		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
4-Methyl-2-pentanone	BRL	9.0		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Acetone	BRL	90		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Benzene	9.2	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Bromodichloromethane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Bromoform	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Bromomethane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Carbon disulfide	BRL	9.0		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Carbon tetrachloride	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Chlorobenzene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Chloroethane	BRL	9.0		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Chloroform	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Chloromethane	BRL	9.0		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
cis-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
cis-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Cyclohexane	18	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Dibromochloromethane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Dichlorodifluoromethane	BRL	9.0		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Ethylbenzene	28	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Freon-113	BRL	9.0		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Isopropylbenzene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
m,p-Xylene	99	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Methyl acetate	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Methyl tert-butyl ether	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ

**Qualifiers:**

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 2
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 3:55:00 PM
<b>Lab ID:</b> 1712538-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Methylcyclohexane	33	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Methylene chloride	BRL	18		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
o-Xylene	38	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Styrene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Tetrachloroethene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Toluene	36	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
trans-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
trans-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Trichloroethene	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Trichlorofluoromethane	BRL	4.5		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Vinyl chloride	BRL	9.0		ug/Kg-dry	252626	1	12/07/2017 21:14	CJ
Surr: 4-Bromofluorobenzene	94.9	65-133		%REC	252626	1	12/07/2017 21:14	CJ
Surr: Dibromofluoromethane	91.9	75.8-119		%REC	252626	1	12/07/2017 21:14	CJ
Surr: Toluene-d8	101	78.3-120		%REC	252626	1	12/07/2017 21:14	CJ
<b>POLYCHLORINATED BIPHENYLS SW8082A</b>					<b>(SW3550C)</b>			
Aroclor 1016	BRL	41		ug/Kg-dry	252439	1	12/08/2017 11:30	SH
Aroclor 1221	BRL	41		ug/Kg-dry	252439	1	12/08/2017 11:30	SH
Aroclor 1232	BRL	41		ug/Kg-dry	252439	1	12/08/2017 11:30	SH
Aroclor 1242	BRL	41		ug/Kg-dry	252439	1	12/08/2017 11:30	SH
Aroclor 1248	BRL	41		ug/Kg-dry	252439	1	12/08/2017 11:30	SH
Aroclor 1254	BRL	41		ug/Kg-dry	252439	1	12/08/2017 11:30	SH
Aroclor 1260	BRL	41		ug/Kg-dry	252439	1	12/08/2017 11:30	SH
Surr: Decachlorobiphenyl	94.6	45.6-131		%REC	252439	1	12/08/2017 11:30	SH
Surr: Tetrachloro-m-xylene	85.7	47.1-130		%REC	252439	1	12/08/2017 11:30	SH
<b>METALS, TOTAL SW6010D</b>					<b>(SW3050B)</b>			
Arsenic	BRL	4.47		mg/Kg-dry	252548	1	12/08/2017 12:34	IO
Barium	27.5	4.47		mg/Kg-dry	252548	1	12/08/2017 12:34	IO
Cadmium	BRL	2.23		mg/Kg-dry	252548	1	12/08/2017 12:34	IO
Chromium	6.95	2.23		mg/Kg-dry	252548	1	12/08/2017 12:34	IO
Lead	16.5	4.47		mg/Kg-dry	252548	1	12/08/2017 12:34	IO
Selenium	BRL	4.47		mg/Kg-dry	252548	1	12/08/2017 12:34	IO
Silver	BRL	2.23		mg/Kg-dry	252548	1	12/08/2017 12:34	IO
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.7	0		wt%	R358367	1	12/07/2017 13:00	OO

**Qualifiers:**

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**SUMMARY OF ANALYTES DETECTED**

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
<b>Client Sample ID:</b> PIT 1				<b>Lab ID:</b> 1712538-001			
<b>Collection Date:</b> 12/6/2017 3:45:00 PM				<b>Matrix:</b> Soil			
<b>Total Mercury by SW7473</b>				<b>(SW7473)</b>			
Mercury	0.135		0.0585	0.127	mg/Kg-dry	252525	1
<b>POLYCHLORINATED BIPHENYLS SW8082A</b>				<b>(SW3550C)</b>			
Aroclor 1260	150		2.1	42	ug/Kg-dry	252439	1
<b>METALS, TOTAL SW6010D</b>				<b>(SW3050B)</b>			
Barium	135		0.0858	5.42	mg/Kg-dry	252548	1
Chromium	18.0		0.0348	2.71	mg/Kg-dry	252548	1
Lead	515		0.0732	5.42	mg/Kg-dry	252548	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	21.0		0	0	wt%	R358367	1
<b>Client Sample ID:</b> PIT 2				<b>Lab ID:</b> 1712538-002			
<b>Collection Date:</b> 12/6/2017 3:55:00 PM				<b>Matrix:</b> Soil			
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>			
Benzene	9.2		0.54	4.5	ug/Kg-dry	252626	1
Cyclohexane	18		1.0	4.5	ug/Kg-dry	252626	1
Ethylbenzene	28		0.45	4.5	ug/Kg-dry	252626	1
m,p-Xylene	99		0.85	4.5	ug/Kg-dry	252626	1
Methylecyclohexane	33		1.4	4.5	ug/Kg-dry	252626	1
o-Xylene	38		0.46	4.5	ug/Kg-dry	252626	1
Toluene	36		0.48	4.5	ug/Kg-dry	252626	1
<b>METALS, TOTAL SW6010D</b>				<b>(SW3050B)</b>			
Barium	27.5		0.0708	4.47	mg/Kg-dry	252548	1
Chromium	6.95		0.0287	2.23	mg/Kg-dry	252548	1
Lead	16.5		0.0604	4.47	mg/Kg-dry	252548	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	19.7		0	0	wt%	R358367	1

**Qualifiers:**

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### SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: \_\_\_\_\_

AES Work Order Number: \_\_\_\_\_

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature \_\_\_\_\_ °C      Cooler 2 Temperature \_\_\_\_\_ °C      Cooler 3 Temperature \_\_\_\_\_ °C      Cooler 4 Temperature \_\_\_\_\_ °C  
 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). \_\_\_\_\_

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: \_\_\_\_\_

I certify that I have completed sections 16-27 (dated initials). \_\_\_\_\_

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). \_\_\_\_\_

**Client:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252439**

Sample ID: <b>MB-252439</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358374</b>							
SampleType: <b>MBLK</b>	TestCode: <b>POLYCHLORINATED BIPHENYLS SW8082A</b>	BatchID: <b>252439</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901238</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	BRL	33									
Aroclor 1221	BRL	33									
Aroclor 1232	BRL	33									
Aroclor 1242	BRL	33									
Aroclor 1248	BRL	33									
Aroclor 1254	BRL	33									
Aroclor 1260	BRL	33									
Surr: Decachlorobiphenyl	15.83	0	16.67		95.0	45.6	131				
Surr: Tetrachloro-m-xylene	15.00	0	16.67		90.0	47.1	130				

Sample ID: <b>LCS-252439</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358374</b>							
SampleType: <b>LCS</b>	TestCode: <b>POLYCHLORINATED BIPHENYLS SW8082A</b>	BatchID: <b>252439</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901239</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	169.4	33	166.7		102	69.4	120				
Aroclor 1260	172.5	33	166.7		103	66.6	125				
Surr: Decachlorobiphenyl	18.41	0	16.67		110	45.6	131				
Surr: Tetrachloro-m-xylene	17.96	0	16.67		108	47.1	130				

Sample ID: <b>1712084-022AMS</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358459</b>							
SampleType: <b>MS</b>	TestCode: <b>POLYCHLORINATED BIPHENYLS SW8082A</b>	BatchID: <b>252439</b>	Analysis Date: <b>12/08/2017</b>	Seq No: <b>7902817</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	182.6	33	166.7		110	50.7	128				
Aroclor 1260	173.1	33	166.7		104	52.1	127				
Surr: Decachlorobiphenyl	19.13	0	16.67		115	45.6	131				
Surr: Tetrachloro-m-xylene	20.88	0	16.67		125	47.1	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252439**

Sample ID: <b>1712084-022AMSD</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358508</b>							
SampleType: <b>MSD</b>	TestCode: <b>POLYCHLORINATED BIPHENYLS SW8082A</b>	BatchID: <b>252439</b>	Analysis Date: <b>12/10/2017</b>	Seq No: <b>7903964</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	181.7	33	166.7		109	50.7	128	182.6	0.490	21.8	
Aroclor 1260	199.2	33	166.7		120	52.1	127	173.1	14.0	21.1	
Surr: Decachlorobiphenyl	20.50	0	16.67		123	45.6	131	19.13	0	0	
Surr: Tetrachloro-m-xylene	19.03	0	16.67		114	47.1	130	20.88	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252525**

Sample ID: <b>MB-252525</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358357</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Mercury by SW7473</b>	BatchID: <b>252525</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901889</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.100

Sample ID: <b>LCS-252525</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358357</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Mercury by SW7473</b>	BatchID: <b>252525</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901890</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.9157 0.100 1.000 91.6 80 120

Sample ID: <b>1712520-001AMS</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358357</b>							
SampleType: <b>MS</b>	TestCode: <b>Total Mercury by SW7473</b>	BatchID: <b>252525</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901892</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.8711 0.106 1.037 0.05803 78.4 80 120 S

Sample ID: <b>1712520-001AMSD</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358357</b>							
SampleType: <b>MSD</b>	TestCode: <b>Total Mercury by SW7473</b>	BatchID: <b>252525</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7901893</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.8646 0.106 1.039 0.05803 77.6 80 120 0.8711 0.755 20 S

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

**Client:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252548**

Sample ID: <b>MB-252548</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358456</b>							
SampleType: <b>MBLK</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>252548</b>	Analysis Date: <b>12/08/2017</b>	Seq No: <b>7902724</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	5.00									
Barium	BRL	5.00									
Cadmium	BRL	2.50									
Chromium	BRL	2.50									
Lead	BRL	5.00									
Selenium	BRL	5.00									
Silver	BRL	2.50									

Sample ID: <b>LCS-252548</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358456</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>252548</b>	Analysis Date: <b>12/08/2017</b>	Seq No: <b>7902725</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	47.58	5.00	50.00		95.2	80	120				
Barium	49.21	5.00	50.00		98.4	80	120				
Cadmium	48.12	2.50	50.00		96.2	80	120				
Chromium	49.75	2.50	50.00	0.3992	98.7	80	120				
Lead	48.21	5.00	50.00		96.4	80	120				
Selenium	47.77	5.00	50.00		95.5	80	120				
Silver	4.781	2.50	5.000		95.6	80	120				

Sample ID: <b>1712327-003AMS</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358456</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>252548</b>	Analysis Date: <b>12/08/2017</b>	Seq No: <b>7902727</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	186.7	20.9	209.2	2.062	88.2	75	125				
Barium	250.4	20.9	209.2	55.06	93.4	75	125				
Cadmium	194.0	10.5	209.2		92.8	75	125				
Chromium	362.6	10.5	209.2	165.6	94.2	75	125				

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

**Client:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252548**

Sample ID: <b>1712327-003AMS</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358456</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>252548</b>	Analysis Date: <b>12/08/2017</b>	Seq No: <b>7902727</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	197.7	20.9	209.2	15.46	87.1	75	125				
Selenium	179.7	20.9	209.2		85.9	75	125				
Silver	19.96	10.5	20.92	0.7824	91.7	75	125				

Sample ID: <b>1712327-003AMSD</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358456</b>							
SampleType: <b>MSD</b>	TestCode: <b>METALS, TOTAL SW6010D</b>	BatchID: <b>252548</b>	Analysis Date: <b>12/08/2017</b>	Seq No: <b>7902728</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	190.5	20.9	209.1	2.062	90.1	75	125	186.7	2.05	20	
Barium	253.1	20.9	209.1	55.06	94.7	75	125	250.4	1.05	20	
Cadmium	196.2	10.5	209.1		93.8	75	125	194.0	1.09	20	
Chromium	367.1	10.5	209.1	165.6	96.3	75	125	362.6	1.22	20	
Lead	199.5	20.9	209.1	15.46	88.0	75	125	197.7	0.893	20	
Selenium	182.2	20.9	209.1		87.1	75	125	179.7	1.37	20	
Silver	20.13	10.5	20.91	0.7824	92.5	75	125	19.96	0.853	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252599**

Sample ID: <b>MB-252599</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358430</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252599</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902175</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	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									

<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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252599**

Sample ID: <b>MB-252599</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358430</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252599</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902175</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	51.91	0	50.00		104	65	133				
Surr: Dibromofluoromethane	47.88	0	50.00		95.8	75.8	119				
Surr: Toluene-d8	48.51	0	50.00		97.0	78.3	120				

<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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252599**

Sample ID: <b>LCS-252599</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358430</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252599</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902174</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	41.01	5.0	50.00		82.0	64.8	138				
Benzene	38.57	5.0	50.00		77.1	70	126				
Chlorobenzene	38.90	5.0	50.00		77.8	70	124				
Toluene	39.79	5.0	50.00		79.6	70.4	127				
Trichloroethene	40.04	5.0	50.00		80.1	70.4	129				
Surr: 4-Bromofluorobenzene	53.29	0	50.00		107	65	133				
Surr: Dibromofluoromethane	54.47	0	50.00		109	75.8	119				
Surr: Toluene-d8	48.44	0	50.00		96.9	78.3	120				

Sample ID: <b>1712174-005AMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358430</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252599</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902177</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	436800	47000	465200		93.9	58.3	138				
Benzene	429400	47000	465200		92.3	66.2	127				
Chlorobenzene	439500	47000	465200		94.5	66	124				
Toluene	447300	47000	465200		96.2	67.4	127				
Trichloroethene	451500	47000	465200		97.1	64.9	127				
Surr: 4-Bromofluorobenzene	482600	0	465200		104	65	133				
Surr: Dibromofluoromethane	482500	0	465200		104	75.8	119				
Surr: Toluene-d8	436400	0	465200		93.8	78.3	120				

Sample ID: <b>1712174-005AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358430</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252599</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902178</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	428100	47000	465200		92.0	58.3	138	436800	2.02	20.2	
Benzene	388300	47000	465200		83.5	66.2	127	429400	10.1	18.6	

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

Client: AMEC Foster Wheeler  
 Project Name: Chamblee Apartments  
 Workorder: 1712538

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 252599

Sample ID: 1712174-005AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 12/07/2017	Run No: 358430
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 252599	Analysis Date: 12/07/2017	Seq No: 7902178

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	397000	47000	465200		85.3	66	124	439500	10.2	20	
Toluene	400000	47000	465200		86.0	67.4	127	447300	11.2	20	
Trichloroethene	414000	47000	465200		89.0	64.9	127	451500	8.66	20	
Surr: 4-Bromofluorobenzene	473900	0	465200		102	65	133	482600	0	0	
Surr: Dibromofluoromethane	469600	0	465200		101	75.8	119	482500	0	0	
Surr: Toluene-d8	445800	0	465200		95.8	78.3	120	436400	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252626**

Sample ID: <b>MB-252626</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902428</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	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									

<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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252626**

Sample ID: <b>MB-252626</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902428</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	44.00	0	50.00		88.0	65	133				
Surr: Dibromofluoromethane	49.30	0	50.00		98.6	75.8	119				
Surr: Toluene-d8	49.06	0	50.00		98.1	78.3	120				

<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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252626**

Sample ID: <b>LCS-252626</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902425</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	53.34	5.0	50.00		107	64.8	138				
Benzene	49.93	5.0	50.00		99.9	70	126				
Chlorobenzene	51.15	5.0	50.00		102	70	124				
Toluene	52.24	5.0	50.00		104	70.4	127				
Trichloroethene	49.67	5.0	50.00		99.3	70.4	129				
Surr: 4-Bromofluorobenzene	44.39	0	50.00		88.8	65	133				
Surr: Dibromofluoromethane	47.72	0	50.00		95.4	75.8	119				
Surr: Toluene-d8	47.46	0	50.00		94.9	78.3	120				

Sample ID: <b>1712215-003AMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902426</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.51	5.6	55.90		103	58.3	138				
Benzene	52.30	5.6	55.90		93.6	66.2	127				
Chlorobenzene	51.96	5.6	55.90		93.0	66	124				
Toluene	52.69	5.6	55.90		94.3	67.4	127				
Trichloroethene	50.70	5.6	55.90		90.7	64.9	127				
Surr: 4-Bromofluorobenzene	48.84	0	55.90		87.4	65	133				
Surr: Dibromofluoromethane	53.70	0	55.90		96.1	75.8	119				
Surr: Toluene-d8	54.19	0	55.90		96.9	78.3	120				

Sample ID: <b>1712215-003AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902427</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.65	5.6	55.90		108	58.3	138	57.51	5.32	20.2	
Benzene	55.65	5.6	55.90		99.6	66.2	127	52.30	6.21	18.6	

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

**Client:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712538

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252626**

Sample ID: <b>1712215-003AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/07/2017</b>	Run No: <b>358444</b>
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>252626</b>	Analysis Date: <b>12/07/2017</b>	Seq No: <b>7902427</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	55.99	5.6	55.90		100	66	124	51.96	7.46	20	
Toluene	56.63	5.6	55.90		101	67.4	127	52.69	7.20	20	
Trichloroethene	53.90	5.6	55.90		96.4	64.9	127	50.70	6.11	20	
Surr: 4-Bromofluorobenzene	47.07	0	55.90		84.2	65	133	48.84	0	0	
Surr: Dibromofluoromethane	54.37	0	55.90		97.3	75.8	119	53.70	0	0	
Surr: Toluene-d8	52.91	0	55.90		94.7	78.3	120	54.19	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.**

December 14, 2017

Steve Davenport  
AMEC Foster Wheeler  
2677 Buford Highway NE  
Atlanta GA 30324

RE: Chamblee Apartments

Dear Steve Davenport:

Order No: 1712B06

Analytical Environmental Services, Inc. received 1 samples on 12/12/2017 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's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

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: 1712B06  
~~1712530~~

Date: 12/6/17 Page 1 of 1 # 12/14

COMPANY: <u>Anee Foster Wheeler</u>		ADDRESS: <u>2677 Buford Hwy Atlanta, Ga 30324</u>			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: <u>404-873-4261</u>		EMAIL: <u>steve.davey@anf.com</u>			<div style="display: flex; justify-content: space-around;"> <span>VOCs</span> <span>PCBs</span> <span>RCRA Metals</span> </div>												
SAMPLED BY: <u>S. Davey</u>		SIGNATURE:															
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)							REMARKS			
		DATE	TIME														
1	P.t 1	12/6/17	3:45 pm	✓			✓	✓	✓								7
2	P.t 2	12/6/17	3:55 pm	✓			✓	✓	✓								7
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
RELINQUISHED BY:		DATE/TIME: <u>12/6/17 6:10</u>		RECEIVED BY:		DATE/TIME: <u>12/6/17 10:10am</u>		PROJECT INFORMATION							RECEIPT		
1.				1.				PROJECT NAME: <u>Chamblee Apartments</u>							Total # of Containers <u>14</u>		
2.				2.				PROJECT #: _____							Turnaround Time (TAT) Request		
3.				3.				SITE ADDRESS: <u>5211 Peachtree Industrial Blvd</u>							<input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" 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): _____		
				OUT: <u>1 1</u> VIA: _____ IN: <u>1 1</u> VIA: _____ other: <u>Client FedEx UPS US mail courier Greyhound</u>				(IF DIFFERENT FROM ABOVE)							E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>		
								QUOTE #: _____ PO#: _____							DATA PACKAGE: <input type="radio"/> I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/> O		

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

**Client:** AMEC Foster Wheeler  
**Project:** Chamblee Apartments  
**Lab ID:** 1712B06

**Case Narrative**

Additional Testing:

At the request of Steve Davenport with AMEC Foster Wheeler via e-mail on 12/12/17 sample PIT 1 was additionally analyzed for TCLP Lead from AES work order 1712538 as a next day rush due on 12/13/17.

**Analytical Environmental Services, Inc**

**Date:** 14-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 3:45:00 PM
<b>Lab ID:</b> 1712B06-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>ICP METALS, TCLP SW1311/6010C</b>					<b>(SW3010A)</b>			
Lead	0.253	0.0500		mg/L	252747	1	12/13/2017 14:40	JR

**Qualifiers:**

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

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

**SAMPLE/COOLER RECEIPT CHECKLIST**

1. Client Name: AMEC Foster Wheeler

AES Work Order Number: IP 12/14  
1712538 1712806

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input checked="" type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 11.8 °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 12/6/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input checked="" type="checkbox"/>	

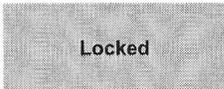
27. Comments: \_\_\_\_\_

I certify that I have completed sections 16-27 (dated initials). AJJ 12/6/17

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

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

\* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.  
 I certify that I have completed sections 28-30 (dated initials). AJJ 12/6/17



**Client:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712B06

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252747**

Sample ID: <b>MB-252747</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>12/12/2017</b>	Run No: <b>358714</b>							
SampleType: <b>MBLK</b>	TestCode: <b>ICP METALS, TCLP SW1311/6010C</b>	BatchID: <b>252747</b>	Analysis Date: <b>12/12/2017</b>	Seq No: <b>7909390</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 0.0500

Sample ID: <b>LCS-252747</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>12/12/2017</b>	Run No: <b>358714</b>							
SampleType: <b>LCS</b>	TestCode: <b>ICP METALS, TCLP SW1311/6010C</b>	BatchID: <b>252747</b>	Analysis Date: <b>12/12/2017</b>	Seq No: <b>7909391</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 4.489 0.0500 5.000 89.8 80 120

Sample ID: <b>1712734-001AMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>12/12/2017</b>	Run No: <b>358714</b>							
SampleType: <b>MS</b>	TestCode: <b>ICP METALS, TCLP SW1311/6010C</b>	BatchID: <b>252747</b>	Analysis Date: <b>12/12/2017</b>	Seq No: <b>7909394</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 4.209 0.0500 5.000 84.2 50 150

Sample ID: <b>1712734-001AMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>12/12/2017</b>	Run No: <b>358714</b>							
SampleType: <b>MSD</b>	TestCode: <b>ICP METALS, TCLP SW1311/6010C</b>	BatchID: <b>252747</b>	Analysis Date: <b>12/12/2017</b>	Seq No: <b>7909399</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 4.256 0.0500 5.000 85.1 50 150 4.209 1.10 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



**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

December 15, 2017

Steve Davenport  
AMEC Foster Wheeler  
2677 Buford Highway NE  
Atlanta GA 30324

RE: Chamblee Apartments

Dear Steve Davenport:

Order No: 1712B07

Analytical Environmental Services, Inc. received 4 samples on 12/12/2017 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's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar  
Project Manager



**Client:** AMEC Foster Wheeler  
**Project:** Chamblee Apartments  
**Lab ID:** 1712B07

**Case Narrative**

Additional Testing:

At the request of Steve Davenport with AMEC Foster Wheeler via e-mail on 12/12/17 samples PIT 1-N/5', PIT 1-E/5', PIT 1-S/5', and PIT 1-W/5' were additionally analyzed for Total PCBs from AES work order 1712537 as a next day rush due on 12/13/17.

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-N/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:40:00 PM
<b>Lab ID:</b> 1712B07-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>POLYCHLORINATED BIPHENYLS SW8082A</b>					<b>(SW3550C)</b>			
Aroclor 1016	BRL	44		ug/Kg-dry	252774	1	12/13/2017 13:27	SH
Aroclor 1221	BRL	44		ug/Kg-dry	252774	1	12/13/2017 13:27	SH
Aroclor 1232	BRL	44		ug/Kg-dry	252774	1	12/13/2017 13:27	SH
Aroclor 1242	BRL	44		ug/Kg-dry	252774	1	12/13/2017 13:27	SH
Aroclor 1248	BRL	44		ug/Kg-dry	252774	1	12/13/2017 13:27	SH
Aroclor 1254	BRL	44		ug/Kg-dry	252774	1	12/13/2017 13:27	SH
Aroclor 1260	BRL	44		ug/Kg-dry	252774	1	12/13/2017 13:27	SH
Surr: Decachlorobiphenyl	107	45.6-131		%REC	252774	1	12/13/2017 13:27	SH
Surr: Tetrachloro-m-xylene	94.9	47.1-130		%REC	252774	1	12/13/2017 13:27	SH
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	23.5	0		wt%	R358781	1	12/13/2017 13:30	CG

**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> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-E/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:45:00 PM
<b>Lab ID:</b> 1712B07-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>POLYCHLORINATED BIPHENYLS SW8082A</b>					<b>(SW3550C)</b>			
Aroclor 1016	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:26	SH
Aroclor 1221	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:26	SH
Aroclor 1232	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:26	SH
Aroclor 1242	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:26	SH
Aroclor 1248	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:26	SH
Aroclor 1254	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:26	SH
Aroclor 1260	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:26	SH
Surr: Decachlorobiphenyl	82.5	45.6-131		%REC	252774	1	12/13/2017 12:26	SH
Surr: Tetrachloro-m-xylene	59.6	47.1-130		%REC	252774	1	12/13/2017 12:26	SH
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.9	0		wt%	R358781	1	12/13/2017 13:30	CG

**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> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-5/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:50:00 PM
<b>Lab ID:</b> 1712B07-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>POLYCHLORINATED BIPHENYLS SW8082A</b>					<b>(SW3550C)</b>			
Aroclor 1016	BRL	42		ug/Kg-dry	252774	1	12/13/2017 13:57	SH
Aroclor 1221	BRL	42		ug/Kg-dry	252774	1	12/13/2017 13:57	SH
Aroclor 1232	BRL	42		ug/Kg-dry	252774	1	12/13/2017 13:57	SH
Aroclor 1242	BRL	42		ug/Kg-dry	252774	1	12/13/2017 13:57	SH
Aroclor 1248	BRL	42		ug/Kg-dry	252774	1	12/13/2017 13:57	SH
Aroclor 1254	BRL	42		ug/Kg-dry	252774	1	12/13/2017 13:57	SH
Aroclor 1260	BRL	42		ug/Kg-dry	252774	1	12/13/2017 13:57	SH
Surr: Decachlorobiphenyl	107	45.6-131		%REC	252774	1	12/13/2017 13:57	SH
Surr: Tetrachloro-m-xylene	107	47.1-130		%REC	252774	1	12/13/2017 13:57	SH
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.2	0		wt%	R358781	1	12/13/2017 13:30	CG

**Qualifiers:**

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

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

**Analytical Environmental Services, Inc**

**Date:** 15-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT 1-W/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/6/2017 4:55:00 PM
<b>Lab ID:</b> 1712B07-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>POLYCHLORINATED BIPHENYLS SW8082A</b>					<b>(SW3550C)</b>			
Aroclor 1016	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:57	SH
Aroclor 1221	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:57	SH
Aroclor 1232	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:57	SH
Aroclor 1242	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:57	SH
Aroclor 1248	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:57	SH
Aroclor 1254	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:57	SH
Aroclor 1260	BRL	42		ug/Kg-dry	252774	1	12/13/2017 12:57	SH
Surr: Decachlorobiphenyl	94	45.6-131		%REC	252774	1	12/13/2017 12:57	SH
Surr: Tetrachloro-m-xylene	84.8	47.1-130		%REC	252774	1	12/13/2017 12:57	SH
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.9	0		wt%	R358781	1	12/13/2017 13:30	CG

**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**

1. Client Name: AMEC Foster Wheeler

AES Work Order Number: 12/14 1712537 1712B07

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input checked="" type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 11.8 °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 12/6/17

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: \_\_\_\_\_

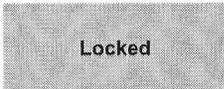
I certify that I have completed sections 16-27 (dated initials). AJJ 12/6/17

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

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

I certify that I have completed sections 28-30 (dated initials). AJJ 12/6/17

\* 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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712B07

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252774**

Sample ID: <b>MB-252774</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/12/2017</b>	Run No: <b>358817</b>							
SampleType: <b>MBLK</b>	TestCode: <b>POLYCHLORINATED BIPHENYLS SW8082A</b>	BatchID: <b>252774</b>	Analysis Date: <b>12/13/2017</b>	Seq No: <b>7912172</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	BRL	33									
Aroclor 1221	BRL	33									
Aroclor 1232	BRL	33									
Aroclor 1242	BRL	33									
Aroclor 1248	BRL	33									
Aroclor 1254	BRL	33									
Aroclor 1260	BRL	33									
Surr: Decachlorobiphenyl	18.07	0	16.67		108	45.6	131				
Surr: Tetrachloro-m-xylene	18.27	0	16.67		110	47.1	130				

Sample ID: <b>LCS-252774</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/12/2017</b>	Run No: <b>358817</b>							
SampleType: <b>LCS</b>	TestCode: <b>POLYCHLORINATED BIPHENYLS SW8082A</b>	BatchID: <b>252774</b>	Analysis Date: <b>12/13/2017</b>	Seq No: <b>7912173</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	155.1	33	166.7		93.1	69.4	120				
Aroclor 1260	162.8	33	166.7		97.7	66.6	125				
Surr: Decachlorobiphenyl	17.94	0	16.67		108	45.6	131				
Surr: Tetrachloro-m-xylene	16.98	0	16.67		102	47.1	130				

Sample ID: <b>1712878-021AMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/13/2017</b>	Run No: <b>358817</b>							
SampleType: <b>MS</b>	TestCode: <b>POLYCHLORINATED BIPHENYLS SW8082A</b>	BatchID: <b>252774</b>	Analysis Date: <b>12/13/2017</b>	Seq No: <b>7917054</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	146.1	36	177.6		82.3	50.7	128				
Aroclor 1260	159.4	36	177.6	3.537	87.7	52.1	127				
Surr: Decachlorobiphenyl	18.18	0	17.77		102	45.6	131				
Surr: Tetrachloro-m-xylene	16.24	0	17.77		91.4	47.1	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712B07

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 252774**

Sample ID: <b>1712878-021AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/13/2017</b>	Run No: <b>358817</b>							
SampleType: <b>MSD</b>	TestCode: <b>POLYCHLORINATED BIPHENYLS SW8082A</b>	BatchID: <b>252774</b>	Analysis Date: <b>12/13/2017</b>	Seq No: <b>7917055</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Aroclor 1016	133.1	36	177.6		74.9	50.7	128	146.1	9.32	21.8	
Aroclor 1260	146.1	36	177.6	3.537	80.3	52.1	127	159.4	8.69	21.1	
Surr: Decachlorobiphenyl	17.07	0	17.77		96.1	45.6	131	18.18	0	0	
Surr: Tetrachloro-m-xylene	15.23	0	17.77		85.7	47.1	130	16.24	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.**

December 18, 2017

Steve Davenport  
AMEC Foster Wheeler  
2677 Buford Highway NE  
Atlanta GA 30324

RE: Chamblee Apartments

Dear Steve Davenport:

Order No: 1712E63

Analytical Environmental Services, Inc. received 15 samples on 12/14/2017 4:34:00 PM for the analyses presented in following report.

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

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar  
Project Manager



COMPANY:		ADDRESS:		ANALYSIS REQUESTED												Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.	Number of Containers																																														
Anee Foster Wheeler		2677 Barclay Hwy Atlanta, Ga 30324		<table border="1"> <tr><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></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><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>																																																											
PHONE:		EMAIL:		PRESERVATION (see codes)																																																											
404-873-4261		Steve.Davey@aeaworld.com																																																													
SAMPLED BY:		SIGNATURE:		SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)																																																							
Steve Davey				DATE	TIME																																																										
1	P.t 2/L-7	12/14	1:49	✓		SO	✓																4																																								
2	P.t 2/N-7	12/14	1:55	✓		SO	✓																4																																								
3	P.t 2/M-7	12/14	1:52	✓		SO	✓																4																																								
4	P.t 2/J-7	12/14	1:46	✓		SO	✓																4																																								
5	P.t 2/H-7	12/14	1:39	✓		SO	✓																4																																								
6	P.t 2/E-7	12/14	1:33	✓		SO	✓																4																																								
7	P.t 2/K-7	12/14	1:47	✓		SO	✓																4																																								
8	P.t 2/I-7	12/14	1:43	✓		SO	✓																4																																								
9	P.t 2/G-7	12/14	1:37	✓		SO	✓																4																																								
10	P.t 2/B-7	12/14	1:28	✓		SO	✓																4																																								
11	P.t 2/F-7	12/14	1:35	✓		SO	✓																4																																								
12	P.t 2/C-7	12/14	1:30	✓		SO	✓																4																																								
13	P.t 2/A-7	12/14	1:26	✓		SO	✓																4																																								
14	P.t 2/B-7	12/14	1:32	✓		SO	✓																4																																								

RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION												RECEIPT	
		12/14/17 4:34				12/14/17 11:03		PROJECT NAME: Chamber Apartments												Total # of Containers: 56	
								PROJECT #: _____												Turnaround Time (TAT) Request	
								SITE ADDRESS: 5211 Peachtree Ind Blvd												<input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input checked="" type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____	
								SEND REPORT TO: S. Davey/IC. Few												STATE PROGRAM (if any): _____	
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				INVOICE TO: _____												E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>	
				OUT: / / VIA:				(IF DIFFERENT FROM ABOVE)												DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>	
				IN:  / / VIA:																	
				<input checked="" type="checkbox"/> Client <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> US mail <input type="checkbox"/> courier <input type="checkbox"/> Greyhound 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.



CHAIN OF CUSTODY

COMPANY: <u>AmeC Foster Wheeler</u>		ADDRESS: <u>2072 Buford Hwy Atlanta, GA 30324</u>					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: <u>404-873-4251</u>		EMAIL: <u>steve.davey@amesfwr.com</u>																							
SAMPLED BY: <u>Steve Davey</u>		SIGNATURE: 																							
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)										REMARKS								
		DATE	TIME																						
1	<u>Temp Blank</u>					<u>W</u>	<u>/</u>																		2
2	<u>Temp Blank</u>																								2
3																									
4																									
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RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT							
1.		12/14/17 <u>4:34</u>		2.		12/14/17 <u>1634</u>		PROJECT NAME: <u>Chamblee Apts</u>										Total # of Containers <u>4</u>							
2.				2.				PROJECT #:										Turnaround Time (TAT) Request <input 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.				3.				SITE ADDRESS: <u>5211 Peachtree Dunwoody Blvd</u>																	
								SEND REPORT TO: <u>S. Davey / C. Perry</u>										STATE PROGRAM (if any): _____ E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/> DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>							
SPECIAL INSTRUCTIONS/COMMENTS:								INVOICE TO: (IF DIFFERENT FROM ABOVE)																	
								SHIPMENT METHOD OUT: / / VIA: IN: / / VIA: <input checked="" type="radio"/> client FedEx UPS US mail courier Greyhound 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.

**Client:** AMEC Foster Wheeler  
**Project:** Chamblee Apartments  
**Lab ID:** 1712E63

**Case Narrative**

Sample Receiving Non-conformance:

Samples were received at 15.9°C, outside required temperature range of 0-6°C. Samples were received on ice, but due to being immediately delivered to the laboratory, target temperature had not been reached.

**Analytical Environmental Services, Inc**

**Date:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/L-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:49:00 PM
<b>Lab ID:</b> 1712E63-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>								
					<b>(SW5035)</b>			
Benzene	BRL	1.0		ug/Kg-dry	253120	1	12/17/2017 15:57	MD
Surr: 4-Bromofluorobenzene	98	65-133		%REC	253120	1	12/17/2017 15:57	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	24.3	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/N-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:55:00 PM
<b>Lab ID:</b> 1712E63-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	20	0.93		ug/Kg-dry	253120	1	12/17/2017 16:23	MD
Surr: 4-Bromofluorobenzene	104	65-133		%REC	253120	1	12/17/2017 16:23	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	23.5	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/M-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:52:00 PM
<b>Lab ID:</b> 1712E63-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	5.1	0.86		ug/Kg-dry	253120	1	12/17/2017 23:20	MD
Surr: 4-Bromofluorobenzene	113	65-133		%REC	253120	1	12/17/2017 23:20	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.4	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/J-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:46:00 PM
<b>Lab ID:</b> 1712E63-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	1.0	0.96		ug/Kg-dry	253120	1	12/17/2017 16:49	MD
Surr: 4-Bromofluorobenzene	106	65-133		%REC	253120	1	12/17/2017 16:49	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	21.1	0		wt%	R359059	1	12/15/2017 13:00	OO

<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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/H-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:39:00 PM
<b>Lab ID:</b> 1712E63-005	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	5.1	0.86		ug/Kg-dry	253120	1	12/17/2017 17:15	MD
Surr: 4-Bromofluorobenzene	108	65-133		%REC	253120	1	12/17/2017 17:15	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.6	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/E-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:33:00 PM
<b>Lab ID:</b> 1712E63-006	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	69	0.80		ug/Kg-dry	253120	1	12/18/2017 15:38	NH
Surr: 4-Bromofluorobenzene	81.9	65-133		%REC	253120	1	12/18/2017 15:38	NH
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.5	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/K-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:47:00 PM
<b>Lab ID:</b> 1712E63-007	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	BRL	0.87		ug/Kg-dry	253120	1	12/17/2017 17:41	MD
Surr: 4-Bromofluorobenzene	98.5	65-133		%REC	253120	1	12/17/2017 17:41	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.5	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/I-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:43:00 PM
<b>Lab ID:</b> 1712E63-008	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	9.5	0.86		ug/Kg-dry	253120	1	12/17/2017 18:07	MD
Surr: 4-Bromofluorobenzene	98.5	65-133		%REC	253120	1	12/17/2017 18:07	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	21.4	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/G-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:37:00 PM
<b>Lab ID:</b> 1712E63-009	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	1.3	0.94		ug/Kg-dry	253120	1	12/17/2017 18:33	MD
Surr: 4-Bromofluorobenzene	97.3	65-133		%REC	253120	1	12/17/2017 18:33	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	24.0	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/B-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:20:00 PM
<b>Lab ID:</b> 1712E63-010	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	7.5	0.94		ug/Kg-dry	253120	1	12/17/2017 18:59	MD
Surr: 4-Bromofluorobenzene	99.1	65-133		%REC	253120	1	12/17/2017 18:59	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.4	0		wt%	R359059	1	12/15/2017 13:00	OO

**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> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/F-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:35:00 PM
<b>Lab ID:</b> 1712E63-011	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	37	1.2		ug/Kg-dry	253120	1	12/17/2017 19:25	MD
Surr: 4-Bromofluorobenzene	97.7	65-133		%REC	253120	1	12/17/2017 19:25	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	22.7	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/C-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:30:00 PM
<b>Lab ID:</b> 1712E63-012	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	4.6	0.83		ug/Kg-dry	253120	1	12/17/2017 19:51	MD
Surr: 4-Bromofluorobenzene	101	65-133		%REC	253120	1	12/17/2017 19:51	MD
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.7	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/A-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:26:00 PM
<b>Lab ID:</b> 1712E63-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	BRL	0.97		ug/Kg-dry	253120	1	12/18/2017 15:10	NH
Surr: 4-Bromofluorobenzene	86.4	65-133		%REC	253120	1	12/18/2017 15:10	NH
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	24.2	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> P.T 2/D-7
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017 1:32:00 PM
<b>Lab ID:</b> 1712E63-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	37	1.1		ug/Kg-dry	253120	1	12/18/2017 14:42	NH
Surr: 4-Bromofluorobenzene	88.3	65-133		%REC	253120	1	12/18/2017 14:42	NH
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	25.4	0		wt%	R359059	1	12/15/2017 13:00	OO

**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:** 18-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/14/2017
<b>Lab ID:</b> 1712E63-015	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Benzene	BRL	1.0		ug/L	253064	1	12/16/2017 15:35	OM
Surr: 4-Bromofluorobenzene	95	68-127		%REC	253064	1	12/16/2017 15:35	OM

**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

**SUMMARY OF ANALYTES DETECTED**

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
<b>Client Sample ID:</b> P.T 2/L-7				<b>Lab ID:</b> 1712E63-001			
<b>Collection Date:</b> 12/14/2017 1:49:00 PM				<b>Matrix:</b> Soil			
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	24.3		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/N-7				<b>Lab ID:</b> 1712E63-002			
<b>Collection Date:</b> 12/14/2017 1:55:00 PM				<b>Matrix:</b> Soil			
<b>VOLATILE ORGANICS SW8260B (SW5035)</b>							
Benzene	20		0.31	0.93	ug/Kg-dry	253120	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	23.5		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/M-7				<b>Lab ID:</b> 1712E63-003			
<b>Collection Date:</b> 12/14/2017 1:52:00 PM				<b>Matrix:</b> Soil			
<b>VOLATILE ORGANICS SW8260B (SW5035)</b>							
Benzene	5.1		0.29	0.86	ug/Kg-dry	253120	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	20.4		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/J-7				<b>Lab ID:</b> 1712E63-004			
<b>Collection Date:</b> 12/14/2017 1:46:00 PM				<b>Matrix:</b> Soil			
<b>VOLATILE ORGANICS SW8260B (SW5035)</b>							
Benzene	1.0		0.32	0.96	ug/Kg-dry	253120	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	21.1		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/H-7				<b>Lab ID:</b> 1712E63-005			
<b>Collection Date:</b> 12/14/2017 1:39:00 PM				<b>Matrix:</b> Soil			
<b>VOLATILE ORGANICS SW8260B (SW5035)</b>							
Benzene	5.1		0.29	0.86	ug/Kg-dry	253120	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	20.6		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/E-7				<b>Lab ID:</b> 1712E63-006			
<b>Collection Date:</b> 12/14/2017 1:33:00 PM				<b>Matrix:</b> Soil			
<b>VOLATILE ORGANICS SW8260B (SW5035)</b>							
Benzene	69		0.27	0.80	ug/Kg-dry	253120	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	17.5		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/K-7				<b>Lab ID:</b> 1712E63-007			
<b>Collection Date:</b> 12/14/2017 1:47:00 PM				<b>Matrix:</b> Soil			
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	20.5		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/I-7				<b>Lab ID:</b> 1712E63-008			
<b>Collection Date:</b> 12/14/2017 1:43:00 PM				<b>Matrix:</b> Soil			
<b>VOLATILE ORGANICS SW8260B (SW5035)</b>							
Benzene	9.5		0.29	0.86	ug/Kg-dry	253120	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	21.4		0	0	wt%	R359059	1

**SUMMARY OF ANALYTES DETECTED**

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
<b>Client Sample ID:</b> P.T 2/G-7				<b>Lab ID:</b>	1712E63-009		
<b>Collection Date:</b> 12/14/2017 1:37:00 PM				<b>Matrix:</b>	Soil		
<b>VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>			
Benzene	1.3		0.31	0.94	ug/Kg-dry	253120	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	24.0		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/B-7				<b>Lab ID:</b>	1712E63-010		
<b>Collection Date:</b> 12/14/2017 1:20:00 PM				<b>Matrix:</b>	Soil		
<b>VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>			
Benzene	7.5		0.31	0.94	ug/Kg-dry	253120	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	17.4		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/F-7				<b>Lab ID:</b>	1712E63-011		
<b>Collection Date:</b> 12/14/2017 1:35:00 PM				<b>Matrix:</b>	Soil		
<b>VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>			
Benzene	37		0.39	1.2	ug/Kg-dry	253120	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	22.7		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/C-7				<b>Lab ID:</b>	1712E63-012		
<b>Collection Date:</b> 12/14/2017 1:30:00 PM				<b>Matrix:</b>	Soil		
<b>VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>			
Benzene	4.6		0.28	0.83	ug/Kg-dry	253120	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	19.7		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/A-7				<b>Lab ID:</b>	1712E63-013		
<b>Collection Date:</b> 12/14/2017 1:26:00 PM				<b>Matrix:</b>	Soil		
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	24.2		0	0	wt%	R359059	1
<b>Client Sample ID:</b> P.T 2/D-7				<b>Lab ID:</b>	1712E63-014		
<b>Collection Date:</b> 12/14/2017 1:32:00 PM				<b>Matrix:</b>	Soil		
<b>VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>			
Benzene	37		0.36	1.1	ug/Kg-dry	253120	1
<b>PERCENT MOISTURE D2216</b>							
Percent Moisture	25.4		0	0	wt%	R359059	1

**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**

1. Client Name: AMEC E&I, Inc. - Plasters

AES Work Order Number: 1712E63

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input checked="" type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 15.9 °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). \_\_\_\_\_

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: \_\_\_\_\_

I certify that I have completed sections 16-27 (dated initials). AJ 13/14/17

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

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

\* 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 13/14/17



**Client:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712E63

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 253064**

Sample ID: <b>MB-253064</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/15/2017</b>	Run No: <b>359097</b>							
SampleType: <b>MBLK</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253064</b>	Analysis Date: <b>12/15/2017</b>	Seq No: <b>7919991</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	1.0									
Surr: 4-Bromofluorobenzene	44.66	0	50.00		89.3	68	127				

Sample ID: <b>LCS-253064</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/15/2017</b>	Run No: <b>359097</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253064</b>	Analysis Date: <b>12/15/2017</b>	Seq No: <b>7919997</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	44.99	1.0	50.00		90.0	73.7	126				
Surr: 4-Bromofluorobenzene	55.01	0	50.00		110	68	127				

Sample ID: <b>1712B61-006AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/15/2017</b>	Run No: <b>359097</b>							
SampleType: <b>MS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253064</b>	Analysis Date: <b>12/15/2017</b>	Seq No: <b>7920979</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	4677	100	5000	809.0	77.4	66.1	137				
Surr: 4-Bromofluorobenzene	5645	0	5000		113	68	127				

Sample ID: <b>1712B61-006AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/15/2017</b>	Run No: <b>359097</b>							
SampleType: <b>MSD</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253064</b>	Analysis Date: <b>12/15/2017</b>	Seq No: <b>7920982</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	4442	100	5000	809.0	72.7	66.1	137	4677	5.15	20	
Surr: 4-Bromofluorobenzene	5474	0	5000		109	68	127	5645	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712E63

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 253120**

Sample ID: <b>MB-253120</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/17/2017</b>	Run No: <b>359208</b>							
SampleType: <b>MBLK</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253120</b>	Analysis Date: <b>12/17/2017</b>	Seq No: <b>7923504</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	1.0									
Surr: 4-Bromofluorobenzene	50.94	0	50.00		102	65	133				

Sample ID: <b>LCS-253120</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/17/2017</b>	Run No: <b>359258</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253120</b>	Analysis Date: <b>12/18/2017</b>	Seq No: <b>7925126</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	45.60	1.0	50.00		91.2	70	126				
Surr: 4-Bromofluorobenzene	44.65	0	50.00		89.3	65	133				

Sample ID: <b>1712E63-001AMS</b>	Client ID: <b>P.T 2/L-7</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/17/2017</b>	Run No: <b>359208</b>							
SampleType: <b>MS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253120</b>	Analysis Date: <b>12/17/2017</b>	Seq No: <b>7923501</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	70.94	1.3	66.08		107	66.2	127				
Surr: 4-Bromofluorobenzene	65.79	0	66.08		99.6	65	133				

Sample ID: <b>1712E63-001AMSD</b>	Client ID: <b>P.T 2/L-7</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/17/2017</b>	Run No: <b>359208</b>							
SampleType: <b>MSD</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253120</b>	Analysis Date: <b>12/17/2017</b>	Seq No: <b>7923502</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	66.34	1.3	66.08		100	66.2	127	70.94	6.70	18.6	
Surr: 4-Bromofluorobenzene	63.44	0	66.08		96.0	65	133	65.79	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.**

December 26, 2017

Steve Davenport  
AMEC Foster Wheeler

2677 Buford Highway NE  
Atlanta GA 30324

RE: Chamblee Apartments

Dear Steve Davenport:

Order No: 1712L08

Analytical Environmental Services, Inc. received 8 samples on 12/21/2017 1:41:00 PM for the analyses presented in following report.

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

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar  
Project Manager



**ANALYTICAL ENVIRONMENTAL SERVICES, INC**

3785 Presidential Parkway, Atlanta GA 30340-3704

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

**CHAIN OF CUSTODY**

Work Order: 1712L08

Date: \_\_\_\_\_ Page 1 of 1

COMPANY: <i>Anee Foster Wheeler</i>		ADDRESS: <i>2677 Buford Hwy Atlanta, GA 30324</i>					ANALYSIS REQUESTED										Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.	No # of Containers	
PHONE: <i>404-873-4761</i>		FAX: <i>Steve.Davenport@Aneefw.com</i>					PRESERVATION (See codes)												REMARKS
SAMPLED BY: <i>S. Davenport</i>		SIGNATURE: <i>[Signature]</i>																	
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)													
		DATE	TIME																
<i>1</i>	<del><i>Pt2-W/5'</i></del>	<i>12/21</i>		<input checked="" type="checkbox"/>	<i>SO</i>	<i>50</i>											<i>4</i>		
<i>2</i>	<i>Pt2-W/9'10'</i>	<i>12/21</i>	<i>12:20</i>	<input checked="" type="checkbox"/>		<i>50</i>											<i>4</i>		
<i>3</i>	<i>Pt2-E/5'</i>	<i>12/21</i>	<i>12:11</i>	<input checked="" type="checkbox"/>		<i>50</i>											<i>4</i>		
<i>4</i>	<i>Pt2-E/9'</i>	<i>12/21</i>	<i>12:12</i>	<input checked="" type="checkbox"/>		<i>50</i>											<i>4</i>		
<i>5</i>	<i>Pt2-S/5'</i>	<i>12/21</i>	<i>12:08</i>	<input checked="" type="checkbox"/>		<i>50</i>											<i>4</i>		
<i>6</i>	<i>Pt2-S/10'</i>	<i>12/21</i>	<i>12:06</i>	<input checked="" type="checkbox"/>		<i>50</i>											<i>4</i>		
<i>7</i>	<i>Pt2-W/5'</i>	<i>12/21</i>	<i>12:15</i>	<input checked="" type="checkbox"/>		<i>50</i>											<i>4</i>		
<i>8</i>	<i>Pt2-W/9'</i>	<i>12/21</i>	<i>12:13</i>	<input checked="" type="checkbox"/>		<i>50</i>											<i>4</i>		
<i>9</i>	<i>Temp Blank</i>																<i>2</i>		
<i>10</i>	<i>Temp Blank</i>																<i>1</i>		
<i>11</i>																			
<i>12</i>																			
<i>13</i>																			
<i>14</i>																			
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION										RECEIPT	
<i>[Signature]</i>		<i>12/21/17 1:21</i>		<i>[Signature]</i>		<i>12/21/17 1341</i>		PROJECT NAME: <i>Chamblee Apartments</i>										Total # of Containers	<i>35</i>
								PROJECT #:										Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input checked="" type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____	
								SITE ADDRESS: <i>5211 Peachtree Industrial Blvd</i>											
								SEND REPORT TO: <i>S. Davenport / C. Ferry</i>										STATE PROGRAM (if any): _____ E-mail? Y/N; Fax? Y/N DATA PACKAGE: I II III IV	
								INVOICE TO: (IF DIFFERENT FROM ABOVE)											
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				QUOTE #:											
				OUT VIA: IN VIA:				PO#:											
				CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER _____															

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS 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 W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water  
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

**Client:** AMEC Foster Wheeler  
**Project:** Chamblee Apartments  
**Lab ID:** 1712L08

**Case Narrative**

Volatile Organic Compounds Analysis by Method 8260B:

Benzene value for the QC sample 1712G55-002AMSD is "E" qualified indicating estimated value over linear calibration range due to the level of target analyte present in the unspiked sample.

**Analytical Environmental Services, Inc**

**Date:** 26-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT2-N/10'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/21/2017 12:20:00 PM
<b>Lab ID:</b> 1712L08-001	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	500	43		ug/Kg-dry	253385	50	12/22/2017 14:27	JE
Surr: 4-Bromofluorobenzene	106	65-133		%REC	253385	50	12/22/2017 14:27	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	15.2	0		wt%	R359684	1	12/22/2017 13:00	OO

<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:** 26-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT2-E/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/21/2017 12:11:00 PM
<b>Lab ID:</b> 1712L08-002	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	28	1.1		ug/Kg-dry	253327	1	12/21/2017 16:56	JE
Surr: 4-Bromofluorobenzene	93.6	65-133		%REC	253327	1	12/21/2017 16:56	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	24.4	0		wt%	R359684	1	12/22/2017 13:00	OO

**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:** 26-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT2-E/9'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/21/2017 12:12:00 PM
<b>Lab ID:</b> 1712L08-003	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	2400	50		ug/Kg-dry	253385	50	12/22/2017 13:14	JE
Surr: 4-Bromofluorobenzene	120	65-133		%REC	253385	50	12/22/2017 13:14	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	23.2	0		wt%	R359684	1	12/22/2017 13:00	OO

<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:** 26-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT2-S/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/21/2017 12:08:00 PM
<b>Lab ID:</b> 1712L08-004	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	37	0.96		ug/Kg-dry	253327	1	12/21/2017 19:18	JE
Surr: 4-Bromofluorobenzene	93.2	65-133		%REC	253327	1	12/21/2017 19:18	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	21.6	0		wt%	R359684	1	12/22/2017 13:00	OO

<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:** 26-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT2-S/10'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/21/2017 12:06:00 PM
<b>Lab ID:</b> 1712L08-005	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	490	49		ug/Kg-dry	253385	50	12/22/2017 14:51	JE
Surr: 4-Bromofluorobenzene	108	65-133		%REC	253385	50	12/22/2017 14:51	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	25.1	0		wt%	R359684	1	12/22/2017 13:00	OO

<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:** 26-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT2-W/5'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/21/2017 12:15:00 PM
<b>Lab ID:</b> 1712L08-006	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	12	0.94		ug/Kg-dry	253359	1	12/22/2017 15:58	JE
Surr: 4-Bromofluorobenzene	136	65-133	S	%REC	253359	1	12/22/2017 15:58	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	18.8	0		wt%	R359684	1	12/22/2017 13:00	OO

<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:** 26-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> PIT2-W/9'
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/21/2017 12:13:00 PM
<b>Lab ID:</b> 1712L08-007	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Benzene	28	0.95		ug/Kg-dry	253359	1	12/22/2017 16:55	JE
Surr: 4-Bromofluorobenzene	214	65-133	S	%REC	253359	1	12/22/2017 16:55	JE
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	21.7	0		wt%	R359684	1	12/22/2017 13:00	OO

<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:** 26-Dec-17

<b>Client:</b> AMEC Foster Wheeler	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> Chamblee Apartments	<b>Collection Date:</b> 12/21/2017
<b>Lab ID:</b> 1712L08-008	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
Benzene	BRL	1.0		ug/L	253325	1	12/21/2017 19:30	NP
Surr: 4-Bromofluorobenzene	97.5	68-127		%REC	253325	1	12/21/2017 19:30	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

1. Client Name: \_\_\_\_\_

AES Work Order Number: \_\_\_\_\_

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature \_\_\_\_\_ °C    Cooler 2 Temperature \_\_\_\_\_ °C    Cooler 3 Temperature \_\_\_\_\_ °C    Cooler 4 Temperature \_\_\_\_\_ °C  
 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). \_\_\_\_\_

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: \_\_\_\_\_

I certify that I have completed sections 16-27 (dated initials). \_\_\_\_\_

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). \_\_\_\_\_

**Client:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712L08

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 253325**

Sample ID: <b>MB-253325</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359593</b>							
SampleType: <b>MBLK</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253325</b>	Analysis Date: <b>12/21/2017</b>	Seq No: <b>7934452</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	1.0									
Surr: 4-Bromofluorobenzene	47.68	0	50.00		95.4	68	127				

Sample ID: <b>LCS-253325</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359593</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253325</b>	Analysis Date: <b>12/21/2017</b>	Seq No: <b>7934451</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	48.31	1.0	50.00		96.6	73.7	126				
Surr: 4-Bromofluorobenzene	50.13	0	50.00		100	68	127				

Sample ID: <b>1712G55-002AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359593</b>							
SampleType: <b>MS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253325</b>	Analysis Date: <b>12/21/2017</b>	Seq No: <b>7935475</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	3492	20	1000	2651	84.2	66.1	137				
Surr: 4-Bromofluorobenzene	1022	0	1000		102	68	127				

Sample ID: <b>1712G55-002AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359593</b>							
SampleType: <b>MSD</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253325</b>	Analysis Date: <b>12/21/2017</b>	Seq No: <b>7935476</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	4179	20	1000	2651	153	66.1	137	3492	17.9	20	SE
Surr: 4-Bromofluorobenzene	1020	0	1000		102	68	127	1022	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712L08

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 253327**

Sample ID: <b>MB-253327</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359599</b>							
SampleType: <b>MBLK</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253327</b>	Analysis Date: <b>12/21/2017</b>	Seq No: <b>7934547</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	1.0									
Surr: 4-Bromofluorobenzene	44.52	0	50.00		89.0	65	133				

Sample ID: <b>LCS-253327</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359599</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253327</b>	Analysis Date: <b>12/21/2017</b>	Seq No: <b>7934544</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	46.46	1.0	50.00		92.9	70	126				
Surr: 4-Bromofluorobenzene	44.79	0	50.00		89.6	65	133				

Sample ID: <b>1712G99-001AMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359599</b>							
SampleType: <b>MS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253327</b>	Analysis Date: <b>12/21/2017</b>	Seq No: <b>7934545</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	61.09	1.3	65.70		93.0	66.2	127				
Surr: 4-Bromofluorobenzene	58.23	0	65.70		88.6	65	133				

Sample ID: <b>1712G99-001AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359599</b>							
SampleType: <b>MSD</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253327</b>	Analysis Date: <b>12/21/2017</b>	Seq No: <b>7934546</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	60.12	1.3	65.70		91.5	66.2	127	61.09	1.60	18.6	
Surr: 4-Bromofluorobenzene	57.39	0	65.70		87.3	65	133	58.23	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712L08

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 253359**

Sample ID: <b>MB-253359</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359663</b>							
SampleType: <b>MBLK</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253359</b>	Analysis Date: <b>12/21/2017</b>	Seq No: <b>7936080</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	1.0									
Surr: 4-Bromofluorobenzene	44.26	0	50.00		88.5	65	133				

Sample ID: <b>LCS-253359</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359663</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253359</b>	Analysis Date: <b>12/22/2017</b>	Seq No: <b>7936092</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	44.38	1.0	50.00		88.8	70	126				
Surr: 4-Bromofluorobenzene	45.58	0	50.00		91.2	65	133				

Sample ID: <b>1712F18-021AMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359663</b>							
SampleType: <b>MS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253359</b>	Analysis Date: <b>12/22/2017</b>	Seq No: <b>7936094</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	63.09	1.3	67.04	1.112	92.4	66.2	127				
Surr: 4-Bromofluorobenzene	60.16	0	67.04		89.7	65	133				

Sample ID: <b>1712F18-021AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/21/2017</b>	Run No: <b>359663</b>							
SampleType: <b>MSD</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253359</b>	Analysis Date: <b>12/22/2017</b>	Seq No: <b>7936095</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	61.62	1.3	67.04	1.112	90.3	66.2	127	63.09	2.34	18.6	
Surr: 4-Bromofluorobenzene	60.07	0	67.04		89.6	65	133	60.16	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:** AMEC Foster Wheeler  
**Project Name:** Chamblee Apartments  
**Workorder:** 1712L08

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 253385**

Sample ID: <b>MB-253385</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/22/2017</b>	Run No: <b>359671</b>							
SampleType: <b>MBLK</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253385</b>	Analysis Date: <b>12/22/2017</b>	Seq No: <b>7936909</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	BRL	50									
Surr: 4-Bromofluorobenzene	2328	0	2500		93.1	65	133				

Sample ID: <b>LCS-253385</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>12/22/2017</b>	Run No: <b>359671</b>							
SampleType: <b>LCS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253385</b>	Analysis Date: <b>12/22/2017</b>	Seq No: <b>7936910</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	913.5	50	1000		91.4	70	126				
Surr: 4-Bromofluorobenzene	2424	0	2500		97.0	65	133				

Sample ID: <b>1712L08-005AMS</b>	Client ID: <b>PIT2-S/10'</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/22/2017</b>	Run No: <b>359671</b>							
SampleType: <b>MS</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253385</b>	Analysis Date: <b>12/22/2017</b>	Seq No: <b>7938818</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	2804	49	2439	489.2	94.9	66.2	127				
Surr: 4-Bromofluorobenzene	2382	0	2439		97.7	65	133				

Sample ID: <b>1712L08-005AMSD</b>	Client ID: <b>PIT2-S/10'</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>12/22/2017</b>	Run No: <b>359671</b>							
SampleType: <b>MSD</b>	TestCode: <b>VOLATILE ORGANICS SW8260B</b>	BatchID: <b>253385</b>	Analysis Date: <b>12/22/2017</b>	Seq No: <b>7938819</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Benzene	2671	49	2439	489.2	89.5	66.2	127	2804	4.85	18.6	
Surr: 4-Bromofluorobenzene	2334	0	2439		95.7	65	133	2382	0	0	

**Qualifiers:**

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

**APPENDIX B  
PHOTOGRAPHS**



Photo 1. View of suspected mechanic's pit at location of former on-site service station (12/6/17).



Photo 2. View of interior of suspect mechanic's pit and contents (12/6/17).



Photo 3. Groundwater in bottom of suspect mechanic's pit excavation following removal (12/19/17).



Photo 4. View of suspect mechanic's pit excavation in progress (12/19/17).



Photo 5. View of Pit 2 (SB-6) area during excavation (12/21/17)



Photo 6. View of Pit 2 (SB-6) area during excavation (12/21/17)



Photo 7. View south across Peachtree Industrial Boulevard toward building under construction on northern portion of site (3/23/18).



Photo 8. View north toward structure under construction at north end of site (3/28/18).



Photo 9. View north across site from south-central portion of site (3/23/18).



Photo 10. View of former secondary service building at southwest site corner (3/23/18).

**APPENDIX C**  
**SUMMARY OF PROFESSIONAL HOURS**

Charles T. Ferry, P.E.  
Summary of Hours and Services During 3rd Semi-Annual Progress Period  
Proposed Chamblee Apartments  
5211 Peachtree Industrial Boulevard  
Tax Parcel 18-299-13-005

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Summary of Hours for Voluntary Remediation Program Activities

Hours	Description
10.5	Planning and Technical Review