

# VRP SEMI-ANNUAL PROGRESS REPORT #5

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

10 March 2019

Project No. 6121-16-0351



10 March 2019

Wood Environment & Infrastructure Solutions, Inc. 2677 Buford Hwy NE Atlanta, Georgia 30324 USA

T: 404-873-4761

www.woodplc.com

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 #5 Proposed Chamblee Apartments, 5211 Peachtree Industrial Boulevard Tax Parcel 18-299-13-005 Wood Project No. 6121-16-0351

Dear Mr. DuBose:

Wood Environment and Infrastructure Solutions, Inc. (Wood, formerly Amec Foster Wheeler Environment & Infrastructure, Inc.) respectfully submits this Semi-Annual Progress Report #5 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.

## **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 groundwater samples obtained from the new well and 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.



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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.

VRP Semi-Annual Progress Report #3, dated March 29, 2018 documented the Site condition at the time of the report. The report indicated that construction had begun on the property and that the secondary service building had been demolished. The report indicated that the automobile lifts which were present in the building were found to be pneumatic lifts rather than hydraulic lifts and that no subsurface tanks or piping containing hydraulic fluid were present. As such, no soil testing was warranted. Progress Report #3 also documented the assessment and remediation of a mechanic's pit encountered near the northeast corner of the property, evaluation of the extent of petroleum impacted soils in the vicinity of the boring SB-6 area and remediation of petroleum-impacted soils around the boring SB-6 location, also in the northeast corner of the Site. EPD issued a review letter dated September 10, 2018 with four comments. The comments are addressed herein.

VRP Semi-Annual Report #4, dated October 10, 2018 documented site conditions at the time of the report. The report indicated that construction of the parking structure and the portion of the apartment building north of the parking structure were underway. Additionally, excavations for footings for a retaining wall along the southern property boundary in progress.

# **RESPONSE TO SEPTEMBER 10, 2018 EPD COMMENTS**

<u>Comment #1:</u> The benzene concentration value for Pit/F-7 on Table 3 and on Figure 4 should be 0.037 mg/kg (not 0.037 mg/kg) per the laboratory report provided.

<u>Response #1:</u> The benzene concentration value for Pit/F-7 on Table 3 and Figure 4 has been corrected. The corrected table and figure are attached.

<u>Comment #2:</u> According to Section 2.4 of the report, any soils exceeding Type 1 Risk Reduction Standards (RRS) for benzene (Pit 2-E/9) will be removed during future excavation activities along the eastern property boundary. Although the sidewall of Pit 2 coincides with the property line, soil sampling to horizontally delineate benzene to Type 1 RRS is still required.

<u>Response #2:</u> As requested by EPD, additional soil sampling was conducted on March 5, 2019 to delineate the horizontal extent of soil impacts to the east. A hand auger boring was advanced to a depth of approximately 9 feet at a location between the property boundary and a 30-inch water main reported by the DeKalb County Department of Watershed Management to be located along the southwest side of Malone Drive. Refer to Figure 1. Fill soils (i.e. pipe backfill) generally consisting of sandy silt and silty sands with some clay, were encountered to approximately 7 feet. Native soils consisting of silty sand were encountered at approximately 7 feet.

A soil sample was collected at a depth of approximately 9 feet (Pit 2 E2/9'). The soil sample was placed into laboratory-provided containers, packed on ice and transported under chain-of-custody protocol to Analytical Environmental Services, Inc. in Atlanta, Georgia for testing. The soil

VRP Semi-Annual Progress Report #5 Proposed Chamblee Apartments 10 March 2019 Page 3

sample was tested for benzene via EPA Test Method 8260B. Benzene was not detected above laboratory reporting limits in the soil sample. As such, lateral delineation has been confirmed.

<u>Comment #3:</u> Table 2 indicates that the Aroclor 1260 result for the Pit 1 soil sample was 150 mg/kg. However, the laboratory analytical report shows the result as 0.150 mg/kg.

<u>Response #3:</u> The Aroclor 1260 result for Pit 1 soil has been corrected. The corrected Table 2 is attached.

<u>Comment #4:</u> The laboratory noted sample receiving temperature non-conformance for soil samples collected on December 6, 2017 and December 14, 2017. Notably, the December 14<sup>th</sup> samples were received at a temperature of 15.9 °C (60.6 °F). EPD will consider results from soil samples that were received with temperature non-conformance to be estimated values. Additional sampling should be conducted to confirm these results.

<u>Response #4:</u> The soil samples collected on December 6, 2017 were collected from the sidewall and soil/debris stockpile from the former mechanic's pit (Pit 1). The stockpiled soil and debris were transported off-site for disposal at Eagle Point Landfill in Ballground, Georgia. The location of the former mechanic's pit is within the footprint of the newly constructed building on the site and is not accessible for additional sampling.

The samples collected on December 14, 2017 were collected for exploratory purposes at the request of the on-site construction contractor. The intent of the sampling was to evaluate the extent of impacted soils in the general area of former sample location SB-6 (Pit 2) in order to roughly estimate the quantity of impacted soils for planning purposes. Therefore, these samples were not used for confirmation of adequate soil excavation. The actual confirmation samples were reported in Semi-Annual Progress Report #3 and conform with laboratory protocol for temperature.

The samples in question will not be used for any regulatory purpose or further reported in the Compliance Status Report. In our opinion, no additional sampling is warranted.

# ACTIONS TAKEN SINCE LAST SUBMITTAL

One additional soil sample was collected at the property to address Comment #2 in the September 10, 2018 EPD letter. No new environmental remediation activities have been performed at the subject Site since the submittal of Semi-Annual Progress Report #4.

Construction is currently progressing into the southern third of the site, According to Mr. Kevin McGovern, Senior Site Superintendent for Whiting-Turner Construction Company, no additional suspect conditions have been encountered.

# **ROUTINE INSPECTION**

Mr. Steve Davenport of Wood visited the Site on February 26, 2018 to conduct a routine inspection. At the time of the Site visit, construction of the two buildings in the northern two-thirds of the Site was well underway. Construction of the portion of the building in the southern one-third of the Site was beginning. Photos of recent Site conditions are attached.

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## CLOSING

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 <u>chuck.ferry@woodplc.com</u>.

Sincerely,

Wood Environment & Infrastructure Solutions, Inc.

Steve Davenport

Steve Davenport Project Geologist

Charles T. Ferry, P.E

Senior Principal Engineer  $\oint$ 

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

Attachments: Groundwater Scientist Statement Table Figure Boring Log Photographs Laboratory Report P.E. Service Hours **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.

"harles 1

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

TABLE

# Table 1Soil Confirmation Testing Results - Pit 2 (SB-6 Area)5211 Peachtree Industrial BoulevardAtlanta, GeorgiaResults reported in milligrams per kilogream

Sample ID		Pit 2/N-7	Pit 2-N/10	Pit 2-E/5	Pit 2-E/9	Pit 2 E2/9'	Pit 2-S/5	Pit 2-S/9	Pit 2-W/5	Pit 2-W/9
Date	Type 1 PPS	12/21/2017	12/21/2017	12/21/2017	12/21/2017	3/5/2019	12/21/2017	12/21/2017	12/21/2017	12/21/2017
Depth (ft)	туретккз	7	10	5	9	9	5	9	5	9
Constituent										
Benzene	0.5	0.02	0.5	0.028	2.4	<0.00067	0.037	0.037	0.012	0.028

Notes:

X.X

X.X

RRS - HSRA Risk Reduction Standard

ft - feet

- Bold values indicate constituent detected above laboratory reporting limit

- Yellow shaded cells indicate constituent concentration exceeds the applicable RRS

FIGURE







**BORING LOG** 

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(ft)	SYMBOLS AND ABBREVIATIONS USED BELOW.	D	(ft)	N T	Е	1st 2nd 3rd	10	20		40 5	50 6	0 70	80	90 1	00
	FILL - SAND and gravel.														
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-	-		·[				-							-	-
-	PIPE BACKFILL - Brown fine sandy <b>SILT</b> with some clay.						$\left  \right $								-
- 5 -														1	-5
			·[ ]												
-	RESIDUAL - Brown silty fine <b>SAND</b> .		:  				-								-
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TRANS	ACES BEWEEN STRATA ARE APPROXIMATE. ITIONS BETWEEN STRATA MAY BE GRADUAL.					▼ ▼									

PHOTOGRAPHS

![](_page_14_Picture_0.jpeg)

![](_page_14_Picture_1.jpeg)

Photo 1. View of west corner of on-site apartment building from southwest.

![](_page_14_Picture_3.jpeg)

Photo 2. View of north corner of on-site apartment building from north.

Semi-Annual Report No. 5 Proposed Chamblee Apartments Photographs taken on 26 February 2019

![](_page_15_Picture_0.jpeg)

![](_page_15_Picture_1.jpeg)

Photo 3. View of construction progress in southern portion of the site.

![](_page_15_Picture_3.jpeg)

Photo 4. View southwest across site along southeastern site boundary.

Semi-Annual Report No. 5 Proposed Chamblee Apartments Photographs taken on 26 February 2019

![](_page_16_Picture_0.jpeg)

![](_page_16_Picture_1.jpeg)

Photo 5. View northwest along northeast site boundary.

![](_page_16_Picture_3.jpeg)

Photo 6. View of construction progress in courtyard area.

Semi-Annual Report No. 5 Proposed Chamblee Apartments Photographs taken on 26 February 2019 LABORATORY REPORT

# **ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

![](_page_18_Picture_1.jpeg)

March 07, 2019

Steve Davenport Wood E&I Solutions 2677 Buford Highway NE Atlanta GA 30324

RE: Chamblee Apartments

Dear Steve Davenport:

Order No: 1903300

Analytical Environmental Services, Inc. received for the analyses presented in following report.

2 samples on 3/5/2019 12:34:00 PM

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 07/01/18-06/30/19.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/18-06/30/19 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Metals and PCM Asbestos), 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,

IDAMA) Pacurar

Ioana Pacurar Project Manager

**Revision** 3/7/2019

![](_page_19_Picture_0.jpeg)

# ANALYTICAL ENVIRONMENTAL SERVICES, INC. 3080 Presidential Drive Atlanta, GA 30340-3704

# CHAIN OF CUSTODY

Work Order: 1903300 Date: 315113 Page \_\_\_\_ of \_\_\_\_

Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

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

Analytical Environmental Services, Inc	2					Date:	7-Mar-19	
Client:Wood E&I SolutionsProject Name:Chamblee ApartmentsLab ID:1903300-001				Client Samp Collection E Matrix:	ole ID: Date:	Pit 2 E2/9 3/5/2019 Soil	9' 12:00:00 PM	
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analysi
VOLATILE ORGANICS SW8260B				(SW:	5035)			
Benzene	BRL	0.67		ug/Kg-dry	275437	1	03/06/2019 17:07	AR
Surr: 4-Bromofluorobenzene	89.9	65.1-125		%REC	275437	1	03/06/2019 17:07	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.4	0		wt%	R392500	) 1	03/06/2019 13:45	JW

#### 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

Page 3 of 8

Analytical Environmental Services, Inc	2					Date:	7-Mar-19		
Client: Wood E&I Solutions				Client San	nple ID:	TRIP BL	ANK		
Project Name: Chamblee Apartments				Collection Date: 3/5/2019					
Lab ID: 1903300-002				Matrix:		Aqueous			
Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analys	
VOLATILE ORGANICS SW8260B				(SW	V5030B)				
Benzene	BRL	1.0		ug/L	275365	1	03/05/2019 20:31	ОМ	
Surr: 4-Bromofluorobenzene	96.2	64-125		%REC	275365	1	03/05/2019 20:31	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

![](_page_22_Picture_0.jpeg)

Clear

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

1. Client Name: AMEC E&I, Inc Plasters				AES Work Order Number:	1903300
2. Carrier: FedEx UPS USPS Client ■ Courier Othe					
	Ves	No	- N/A	Details	Comments
3 Shipping container/cooler received in good condition?		$\overline{\mathbf{O}}$		damaged leaking other	connents
4 Custody seals present on shipping container?	K		HX		
5. Custody seals intact on shipping container?	$\vdash \times$	1×	18		
C Temperature blanks present?		$\mathbb{R}$	1×		
Cooler temperature (s) within limits of $0.6^{\circ}$ C2 [See item 13 and 14 for				Cooling initiated for recently collected complex / ico	
7. temperature recordings.]	$\odot$	0	O	present	
8. Chain of Custody (COC) present?	$\mathbf{O}$	$\mathbf{O}$			
9. Chain of Custody signed, dated, and timed when relinquished and received?	$\mathbf{O}$	O			
10. Sampler name and/or signature on COC?	$\mathbf{O}$	$\circ$	$\mathbf{O}$		
11. Were all samples received within holding time?	$\odot$	$\circ$	$\circ$		
12. TAT marked on the COC?	$\overline{\mathbf{O}}$	$\mathbf{O}$	$\mathbf{O}$	If no TAT indicated, proceeded with standard TAT per Terr	ms & Conditions.
14. Cooler 5 Temperature   °C   Cooler 6 Temperature     15. Comments:			°C	Cooler 7 Temperature °C Cooler 8	8 Temperature °C
				I certify that I have com	npleted sections 1-15 (dated initials). BC 3/5/19
	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	$\mathbf{O}$	$\overline{\mathbf{O}}$	ÍÓ		
17 Custody seals present on sample containers?	K	l 🎽	Ιŏ		
18 Custody seals intact on sample containers?	K	ŏ	1ŏ		
	õ	ŏ		incomplete info illegible	
19. Do sample container labels match the COC?	$\mathbf{O}$			no label Other	
20. Are analyses requested indicated on the COC?	$\mathbf{\bullet}$	$\circ$	$\mathbf{O}$		
21 Ware all of the complex listed on the COC received?				samples received but not listed on COC	
	0			samples listed on COC not received	
22. Was the sample collection date/time noted?	$\odot$	Ο			
23. Did we receive sufficient sample volume for indicated analyses?	$\mathbf{O}$	Ο			
24. Were samples received in appropriate containers?	$\mathbf{O}$	0	$ 0\rangle$		
25. Were VOA samples received without headspace (< 1/4" bubble)?	$\circ$	$\circ$	$\odot$		
26. Were trip blanks submitted?	$\odot$	0	0	listed on COC 🔳 not listed on COC 🗌	
27. Comments:				•	
This section only applies to samples where pH can be				I certify that I have com	ppleted sections 16-27 (dated initials).
checked at Sample Receipt.	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	Ο	$\mathbf{O}$	Ο		
29. Containers meet preservation guidelines?	Ŏ	Ŏ	Ŏ		
30. Was pH adjusted at Sample Receipt?	Ŏ	Ŏ	Ō		
* Note: Certain analyses require chemical preservation but must be	check	ed in th	ne labo	ratory and not upon Sample Receipt such as Colifor	rms, VOCs and Oil & Grease/TPH.
				I certify that I have com	pleted sections 28-30 (dated initials). BC 3/5/19
Checklist 6.9.17 Rev 2			L	ocked	

Client:Wood E&I SolutionsProject Name:Chamblee ApartmentsWorkorder:1903300

# ANALYTICAL QC SUMMARY REPORT

# BatchID: 275365

Sample ID: MB-275365	Client ID:				Un	its: <b>ug/L</b>	Pr	ep Date:	03/04/20	019	Run No: 39	2346
SampleType: MBLK	TestCode:	VOLATILE ORGANICS	SW8260B		Bat	tchID: 275365	Ar	nalysis Date:	03/04/20	019	Seq No: 87	82873
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val	%RPD	RPD Lii	nit Qual
Benzene	BRL	1.0										
Surr: 4-Bromofluorobenzene	50.26	0	50.00		101	64	125					
Sample ID: LCS-275365	Client ID:				Un	its: ug/L	Pr	ep Date:	03/04/20	019	Run No: 39	2346
SampleType: LCS	TestCode:	VOLATILE ORGANICS	SW8260B		Bat	tchID: 275365	Ar	nalysis Date:	03/04/20	019	Seq No: 87	82872
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val	%RPD	RPD Lii	nit Qual
Benzene	45.31	1.0	50.00		90.6	72.3	126					
Surr: 4-Bromofluorobenzene	50.45	0	50.00		101	64	125					
Sample ID: <b>1902R34-004AMS</b> SampleType: <b>MS</b>	Client ID: TestCode:	VOLATILE ORGANICS	SW8260B		Un Bat	its: ug/L tchID: 275365	Pro Ar	ep Date: nalysis Date:	03/04/20	019 019	Run No:         39           Seq No:         87	2346 82882
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val	%RPD	RPD Lii	nit Qual
Benzene	2756	50	2500		110	66.1	137					
Surr: 4-Bromofluorobenzene	2578	0	2500		103	64	125					
Sample ID: <b>1902R34-005AMS</b> SampleType: <b>MS</b>	Client ID: TestCode:	VOLATILE ORGANICS	SW8260B		Un Bat	its: ug/L tchID: 275365	Pro Ar	ep Date: nalysis Date:	03/04/20 03/06/20	019 019	Run No: <b>39</b> Seq No: <b>87</b>	2489 85224
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val	%RPD	RPD Lii	nit Qual
Benzene	75.93	1.0	50.00	0.6800	150	66.1	137					S
Surr: 4-Bromofluorobenzene	49.35	0	50.00		98.7	64	125					
Sample ID: <b>1902R34-006ADUP</b> SampleType: <b>DUP</b>	Client ID: TestCode:	VOLATILE ORGANICS	SW8260B		Un Bat	its: ug/L tchID: 275365	Pr Ar	ep Date: nalysis Date:	03/04/20 03/05/20	019 019	Run No:         39           Seq No:         87	2476 84434
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Re	f Val	%RPD	RPD Lii	nit Qual
Benzene	BRL	1.0						0		0	20	
Qualifiers: > Greater than Result value	ue		< Less	than Result value			В	Analyte detected	l in the associa	ited method	blank	
BRL Below reporting limit			E Estir	nated (value above quantita	ation range)		Н	Holding times for	or preparation	or analysis e	exceeded	
J Estimated value detector Rpt Lim Reporting Limit	ed below Reporting	g Limit	N Anal S Spike	yte not NELAC certified e Recovery outside limits d	ue to matrix		R	RPD outside lin	nits due to mat	trix	Page 6 o	f 8

Date: 7-Mar-19

Client:Wood E&I SolutionsProject Name:Chamblee ApartmentsWorkorder:1903300

# ANALYTICAL QC SUMMARY REPORT

#### BatchID: 275365

Sample ID: <b>1902R34-006ADUP</b> SampleType: <b>DUP</b>	Client ID: TestCode: VOL	ATILE ORGANICS	SW8260B		Un Ba	its: ug/L tchID: 275365	Pre An	ep Date: alysis Date:	03/04/2019 03/05/2019	Run No: <b>392476</b> Seq No: <b>878443</b>	4
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ret	f Val %RPI	O RPD Limit	Qual
Surr: 4-Bromofluorobenzene	48.31	0				64	125	49.03	0	0	

Qualifiers: > Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

- < Less than Result value
- E Estimated (value above quantitation range)
- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

- H Holding times for preparation or analysis exceeded
- R RPD outside limits due to matrix

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Date: 7-Mar-19

Client:Wood E&I SolutionsProject Name:Chamblee ApartmentsWorkorder:1903300

# ANALYTICAL QC SUMMARY REPORT

#### BatchID: 275437

Sample ID: MB-275437	Client ID:				Un	its: <b>ug/Kg</b>	Pre	p Date:	03/06/2019	Run No: 392505
SampleType: MBLK	TestCode:	VOLATILE ORGANICS	SW8260B		Bat	chID: 275437	An	alysis Date:	03/06/2019	Seq No: 8786688
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	45.97	0	50.00		91.9	65.1	125			
Sample ID: LCS-275437	Client ID:				Un	its: ug/Kg	Pre	p Date:	03/06/2019	Run No: <b>392505</b>
SampleType: LCS	TestCode:	VOLATILE ORGANICS	SW8260B		Bat	chID: 275437	An	alysis Date:	03/06/2019	Seq No: 8786687
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit Qual
Benzene	45.09	1.0	50.00		90.2	71.3	130			
Surr: 4-Bromofluorobenzene	50.37	0	50.00		101	65.1	125			
Sample ID: 1903300-001AMS	Client ID:	Pit 2 E2/9'			Un	its: ug/Kg-d	lry Pre	p Date:	03/06/2019	Run No: <b>392505</b>
SampleType: MS	TestCode:	VOLATILE ORGANICS	SW8260B		Bat	chID: 275437	An	alysis Date:	03/06/2019	Seq No: 8786753
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit Qual
Benzene	59.10	1.1	53.52		110	69	131			
Surr: 4-Bromofluorobenzene	54.56	0	53.52		102	65.1	125			
Sample ID: 1903300-001AMSD	Client ID:	Pit 2 E2/9'			Un	its: ug/Kg-d	lry Pre	p Date:	03/06/2019	Run No: <b>392505</b>
SampleType: MSD	TestCode:	VOLATILE ORGANICS	SW8260B		Bat	chID: 275437	An	alysis Date:	03/06/2019	Seq No: 8786754
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref	Val %RPD	RPD Limit Qual
Benzene	62.23	1.2	62.43		99.7	69	131	59.10	5.15	20
Surr: 4-Bromofluorobenzene	61.27	0	62.43		98.1	65.1	125	54.56	0	0

Qualifiers: >

> Greater than Result value

BRL Below reporting limit

J Estimated value detected below Reporting Limit

Rpt Lim Reporting Limit

< Less than Result value

E Estimated (value above quantitation range)

- N Analyte not NELAC certified
- S Spike Recovery outside limits due to matrix

B Analyte detected in the associated method blank

H Holding times for preparation or analysis exceeded

R RPD outside limits due to matrix

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P.E. SERVICE HOURS

# Charles T. Ferry, P.E. Summary of Hours and Services During 5th Semi-Annual Progress Period Proposed Chamblee Apartments 5211 Peachtree Industrial Boulevard Tax Parcel 18-299-13-005

Summary of Hours for Voluntary Remediation Program Activities

- Hours Description
  - 6.5 Planning and Technical Review