



## REPORT OF GROUNDWATER FIELD SCREENING

FORMER VERMONT BOSCH SITE  
FOUNTAIN INN, SOUTH CAROLINA  
SCDHEC SITE ID #52309

Prepared for:

ROBERT BOSCH TOOL CORPORATION  
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Prepared by:

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Amec Foster Wheeler Project 6251121007.03.01

**RECEIVED**

NOV 14 2016

November 11, 2016

SITE ASSESSMENT,  
REMEDICATION &  
REVITALIZATION

November 11, 2016

Mr. Lucas Beresford  
Bureau of Land & Waste Management  
Site Remediation Section  
South Carolina Department of Health and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: **Report of Groundwater Field Screening  
Former Vermont Bosch Site  
Fountain Inn, South Carolina  
SCDHEC Site ID #52309  
Amec Foster Wheeler Project 6251161022.01.01**



NOV 14 2016

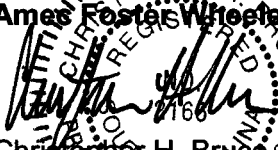
SITE ASSESSMENT,  
REMEDICATION &  
REVITALIZATION


Dear Mr. Beresford:

Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) is pleased to submit the subject report on behalf of the Robert Bosch Tool Corporation. Should you have any questions, please do not hesitate to contact Paul S. Johnstone at (864) 552-9624.

Sincerely,

Amec Foster Wheeler

  
Christopher H. Bruce  
Senior Geologist  
Licensed, SC # 2166

  
Paul S. Johnstone, P.G.  
Principal Geologist  
Licensed, SC # 2134

Cc: Mr. Aromake Afiegbe – Robert Bosch Tool Corporation, Mount Prospect, IL  
Mr. John Young – Robert Bosch, LLC, Farmington Hills, MI



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Appendix A	Laboratory Report of Analysis and Chain-Of-Custody Records
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## LIST OF ACRONYMS

AOC	Area of Concern
bgs	below ground surface
DPT	Direct Push Technology
FSAP	Field Sampling and Analysis Plan
RBTC	Robert Bosch Tool Corporation
RI	Remedial Investigation
SCDHEC	South Carolina Department of Health and Environmental Control
SPGS	Screen Point Groundwater Sampler
USEPA	United States Environmental Protection Agency
VCC	Voluntary Cleanup Contract
VOCs	volatile organic compounds

## 1.0 INTRODUCTION

This Report of Groundwater Field Screening activities and results (Report) has been prepared to document the additional remedial investigation (RI) activities at the Former Vermont Bosch Site (Site) located in Fountain Inn, South Carolina. The Report has been prepared by Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), formerly AMEC Environment & Infrastructure, Inc. and MACTEC Engineering and Consulting, Inc., on behalf of Robert Bosch Tool Corporation (RBTC), in accordance with Voluntary Cleanup Contract (VCC) #05-5613-RP, executed on August 29, 2005. Groundwater field screening activities were conducted in response to comments on the RI Report (Amec Foster Wheeler, 2016) from the South Carolina Department of Health and Environmental Control (SCDHEC) in a letter dated April 20, 2016 and in accordance with the Field Sampling and Analysis Plan (FSAP) for Additional Groundwater Investigation dated June 3, 2016 and approved by SCDHEC in a letter dated June 15, 2016.

The purpose of the groundwater field screening was to provide additional information on the nature and extent of contaminated groundwater present at the Site including a further evaluation of the intermediate water table aquifer downgradient of the suspected source area, specifically down gradient of MW-09-07 and MW-09-11.

Volatile organic compounds (VOCs) were detected in previous field-screening groundwater samples and RI monitoring well groundwater samples collected immediately downgradient from Area of Concern (AOC) # 9 (Former Hazardous Waste Accumulation Building) and at the adjacent Fort Dearborn (former Sherwin-Williams) property, which is also downgradient from the Former Hazardous Waste Accumulation Building.

The field screening targeted the water table aquifer below the current depth of the shallow groundwater monitoring wells that were installed during the RI over the depth interval from 10 to 25 feet below ground surface (bgs). This field screening included the intermediate (mid-level) water table aquifer, approximately 26 to 40 feet bgs, and the deeper aquifer to the top of bedrock zone, approximately 40 to 75 feet bgs.

Field screening borings were installed both side gradient and down the approximate center line of known shallow groundwater contamination in order to further define the vertical presence of the plume.

## 2.0 FIELD ACTIVITIES

During the period from August 10, 2016 to August 12, 2016, ten multi-level groundwater field-screening borings were advanced at the Site. The borings were advanced by A.E. Drilling Services, Inc. (AE), under subcontract to Amec Foster Wheeler, using a direct-push technology (DPT) drill rig. A summary of the DPT boring locations, identified as GW-09-01 through GW-09-05, GW-09-05A, and GW-09-06 through GW-09-09, and their sample intervals is provided on **Table 1**. Each of the borings, with the exception of GW-09-05, was advanced to DPT refusal. Boring GW-09-05 was terminated at 30 feet bgs due to mechanical issues with the DPT rig and boring GW-09-5A was advanced to evaluate the aquifer below 30 feet bgs. The locations of the field screening borings are shown on **Figure 1**. Field screening borings conducted as part of previous site groundwater assessments (2003 and 2005) are also shown on this figure.

Groundwater field-screening samples were collected on ten-foot centers starting approximately five feet below the bottom of existing shallow groundwater monitoring wells (approximately 25 feet bgs) to DPT refusal. Groundwater samples were collected from each field-screening boring using a Geoprobe® Screen Point Groundwater Sampler (SPGS). The SPGS was driven to the desired sampling depth and the four-foot long sampling screen was then exposed. Once groundwater had entered the sampler, a length of tubing was inserted into the SPGS and a groundwater sample was extracted using a peristaltic pump or manually extracted using a check valve system installed on the bottom of the tubing. The SPGS was then removed from the borehole and decontaminated before being driven to the next sampling depth.

A portion of each groundwater sample collected was field screened using the Color-Tec method and the remainder of the sample was collected into laboratory-provided and preserved sample containers, marked with the appropriate identifying number, packed on ice in a sample cooler, and held for potential laboratory analysis. The Color-Tec method is described in the FSAP for Additional Groundwater Investigation (Amec Foster Wheeler, 2016). Based on field screening Color-Tec results, 17 groundwater samples were shipped under chain-of-custody protocols to Atlanta Environmental Services, Inc. (AES) located in Atlanta, Georgia and analyzed for VOCs by United States Environmental Protection Agency (USEPA) Method 8260B.

### 3.0 RESULTS

DPT refusal depths ranged from 41 feet bgs (GW-09-08) to 74 feet bgs (GW-09-01). An overburden (saprolite) isopach map representing data from previous investigations, the RI, and this investigation is presented as **Figure 2**. The saprolite thickness map is based on DPT refusal during field screening and the depth to top of rock established during the initial well installation. DPT refusal from field screening data, presented in the previous 2003 and 2005 investigations, is also shown on this map but was not used in the generation of the contours. The thickest portion of the saprolite runs from the former hazardous waste storage area southwest and south through the rear parking lot of the Fort Dearborn (former Sherwin Williams) facility (see **Figure 2**). The saprolite becomes shallow quickly to the southeast and northwest. This feature forms a potential preferential pathway that appears to influence the orientation of the groundwater contaminant transport.

During the field screening investigation, 28 discrete groundwater samples for Color-Tec analysis were collected from 10 borings. Positive Color-Tec results were observed in six of the 28 groundwater samples and ranged from a trace to 5.0 Color-Tec units (ctu). The results of the groundwater field-screening sampling is provided in **Table 1**.

Concentrations of 2-butanone (methyl ethyl ketone), acetone, and tetrachloroethene (perchloroethylene, or PCE) were detected above the laboratory's Reporting Limit (RL) in one or more of the field-screening groundwater samples submitted to the laboratory for analysis. Estimated concentrations (J-Flagged) of acetone, methylene chloride, and PCE between the laboratory's Method Detection Limit (MDL) and the RL were reported in one or more of the field-screening groundwater samples. It should be noted that acetone and methylene chloride are common laboratory contaminants.

Detections of PCE ranged from 0.99J micrograms per liter ( $\mu\text{g/L}$ ) at GW-09-06 (46 to 50 feet bgs) to 130  $\mu\text{g/L}$  at GW-09-04 (26 to 30 feet bgs). Concentrations of PCE above the maximum contaminant level (MCL) of 5  $\mu\text{g/L}$  established in South Carolina Primary Drinking Water Regulation R.61-58 (October 2014) were observed in three borings: GW-09-04 (26 to 30 feet bgs), GW-09-05A (46 to 50 feet bgs), and GW-09-07 (26 to 30 feet bgs). The laboratory analytical results are summarized on **Table 2**. Isoconcentration contour maps for PCE in the Shallow Zone from 10–25 feet bgs, Intermediate Zone A from 26–30 feet bgs, Intermediate Zone B from 36–40 feet bgs, and the Deep Zone from 46–50 feet bgs are shown on **Figures 3 through 6**. The

configuration of the plume is based on monitoring well data previously presented in the RI report and analytical and field screening data collected during this phase of work. Additional field screening data, previously presented in the 2003 and 2005 investigations, is also shown on these maps but was not used in the generation of the contours. The laboratory report and chain-of-custody records are included in **Appendix A**.

#### 4.0 FINDINGS

This section presents the findings of the field screening results.

- Positive Color-Tec results were observed in six of the 28 groundwater samples and ranged from a trace to 5.0 ctu. Correlation between samples field screened using the Color-Tec method and samples selected for laboratory analysis was fair with the exception GW-09-07 at 26-30 feet bgs.
- Concentrations of PCE were detected in the field screening groundwater samples above the SCDHEC MCL in three of the 17 groundwater samples selected for laboratory analysis. Two of the detections above the MCL were observed in Intermediate Zone A (26 to 30 feet bgs) and one detection above the MCL was observed in the Deep Zone (46 to 50 feet bgs).
- The zone of maximum contamination appears to be in the Shallow Zone (10 to 25 feet bgs) and Intermediate Zone A (26 to 30 feet bgs) of the aquifer. Intermediate Zone B (36 to 40 feet bgs) and the Deep Zone of the saprolite aquifer (46 to 50 feet bgs) appear to be minimally impacted (i.e., minimum detections of PCE above the MCL).
- The configuration of the plume appears to be similar to the plume depicted in the RI report. The axis of the plume has shifted slightly to the west (see **Figure 4**). The configuration of the saprolite thickness appears to greatly influence the direction of contaminant transport at the site (see **Figure 2**).



## 5.0 RECOMMENDATIONS

This section presents the recommendations for additional well installations based on the field screening results.

It is recommended that seven new monitoring wells be installed to help further define the horizontal and vertical extent of the plume. The locations for the new wells are shown on **Figure 7**. Four wells will be installed in the intermediate zone of the aquifer: one well will be installed in the source area and will be screened from 35-45 feet bgs; two wells will be installed lateral to the distal end of the plume and will each be screened from 25-40 feet bgs; and one well will be installed at the distal end of the plume and will be screened from 25-35 feet bgs. Three deep wells will be installed in the deep zone of the aquifer along the axis of the plume: one deep well will be installed in the source area and screened from 65-75 feet bgs; one deep well will be located near the mid-point of the plume and screened from 43-53 feet bgs; and one deep well will be located near the distal end of the plume and screened from 43-53 feet bgs.

These seven proposed wells, in conjunction with the existing wells and field screening data, will provide more thorough horizontal and vertical coverage of the plume and provide additional information about the vertical distribution of contaminants at the site. This information will be used to help focus the selection and implementation of remedial technologies.

## **6.0 QUALIFICATIONS OF REPORT**

The activities and evaluative approaches used in this assessment are consistent with those normally employed in environmental assessments and waste-management projects of this type. Our evaluation of Site conditions has been based on our understanding of the Site and project information and the data obtained in our assessments. The general subsurface conditions utilized in our evaluation have been based on interpolation of subsurface data between the sampling locations. Regardless of the thoroughness of an environmental Site assessment, there is always the possibility that conditions between sampling locations will be different from that at specific locations due to the variability of subsurface conditions. Therefore, it was not possible to identify all conceivable forms of contamination.

This report has been prepared on behalf of and exclusively for the use of Robert Bosch Tool Corporation, Robert Bosch, LLC, and the SCDHEC. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party or used or relied upon by any other party without Amec Foster Wheeler's prior written consent.

## TABLES

TABLE 1

**Groundwater Field-Screening Sample Intervals and Results**  
**Former Vermont Bosch Site**  
**Fountain Inn, South Carolina**  
**Amec Foster Wheeler Project 6251161022.01.01**

Proposed Sample ID	Sample Depth (bgs)	COLOR-TEC (ctu)	COLOR-TEC Duplicate (ctu)	PCE by USEPA 8260B (µg/L)
GW-09-01	26-30 feet	ND	ND	NA
	36-40 feet	ND	ND	NA
	46-50 feet	ND	ND	NA
	56-60 feet	ND	ND	NA
	66-70 feet	ND	ND	NA
Refusal at 74' bgs				
GW-09-02	26-30 feet	ND	ND	3.0
	36-40 feet	ND	ND	NA
	46-50 feet	ND	ND	< 1.0
Refusal at 52' bgs				
GW-09-03	26-30 feet	ND	ND	2.4
	36-40 feet	ND	ND	NA
	46-50 feet	ND	ND	< 1.0
Refusal at 49.5' bgs				
GW-09-04	16-20 feet	2.0	NC	NA
	26-30 feet	5.0	NC	130
	36-40 feet	ND	ND	2.6
	46-50 feet	ND	ND	< 1.0
Refusal at 49.5' bgs				
GW-09-05	26-30 feet	0.75	NC	< 1.0
GW-09-05A	26-30 feet	2.0	NC	< 1.0
	36-40 feet	ND	ND	< 1.0
	46-50 feet	TRACE	TRACE	6.9
Refusal at 50' bgs				
GW-09-06	26-30 feet	0.8	0.5	NA
	36-40 feet	ND	ND	NA
	46-50 feet	ND	ND	<i>0.99J</i>
Refusal at 53' bgs				
GW-09-07	26-30 feet	ND	ND	27
	36-40 feet	ND	ND	< 1.0
Refusal at 43' bgs				
GW-09-08	26-30 feet	ND	ND	3.4
	36-40 feet	ND	ND	< 1.0
Refusal at 41' bgs				
GW-09-09	26-30 feet	ND	ND	< 1.0
	36-40 feet	ND	ND	NA
Refusal at 43' bgs				

**Notes:**

PCE = Tetrachloroethene (perchloroethylene)

bgs = Below ground surface

ctu = Color-Tec unit

USEPA = United States Environmental Protection Agency

µg/L = microgram per liter

ND = not detected

NC = not collected

NA = not analyzed

Refusal = probe refusal

*Italicized* values are estimated

Yellow shaded values represent detections above South Carolina MCL (5 µg/L)



TABLE 2

Groundwater Field-Screening Summary of Laboratory Analytical Results  
 Former Vermont Bosch Site  
 Fountain Inn, South Carolina  
 Amec Foster Wheeler Project 6251161022.01.01

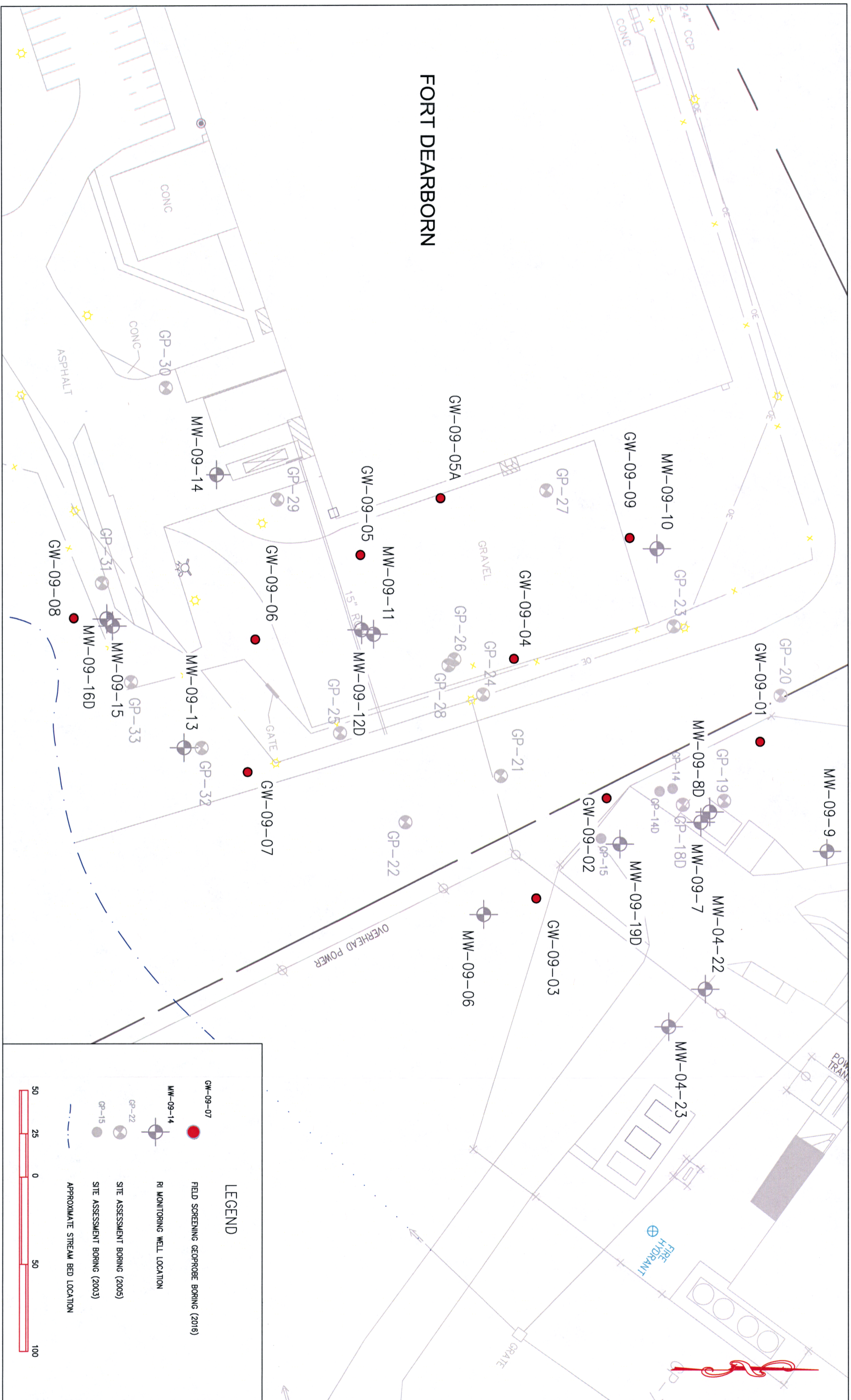
Constituent	Units	SCDHEC MCL	Sample ID and Interval																
			GW-09-02 26-30' 46-50'	GW-09-03 26-30' 46-50'	GW-09-04 26-30' 36-40' 46-50'	GW-09-05 26-30' 26-30'	GW-09-05A 36-40' 46-50'	GW-09-06 46-50'	GW-09-07 26-30' 36-40'	GW-09-08 26-30' 36-40'	GW-09-09 26-30'								
2-Butanone	µg/L	NE <sup>1</sup>	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Acetone	µg/L	NE <sup>2</sup>	< 20	< 20	< 20	12J	15J	< 20	<b>26</b>	< 20	< 20	< 20	< 20	< 20	< 20	20J	< 20	< 20	< 20
Methylene Chloride	µg/L	5	1.0J	1.2J	< 5.0	1.0J	1.4J	< 5.0	1.2J	< 5.0	< 5.0	< 5.0	< 5.0	0.93J	< 5.0	< 5.0	< 5.0	1.2J	1.0J
PCE	µg/L	5	3.0	< 1.0	2.4	< 1.0	<b>130</b>	2.6	< 1.0	< 1.0	< 1.0	< 1.0	6.9	0.99J	27	< 1.0	3.4	< 1.0	< 1.0

**Notes:**

- 2-Butanone also known as methyl ethyl ketone
- Methylene Chloride also known as Dichloromethane
- PCE = Tetrachloroethene (perchloroethylene)
- µg/L = micrograms per liter
- SCDHEC = South Carolina Department of Health and Environmental Control
- MCL = Maximum Contaminant Level (South Carolina Primary Drinking Water Regulation R. 61-58, October 2014)
- <sup>1</sup> = United States Environmental Protection Agency Tap Water Regional Screening Level for 2-Butanone = 5,600 µg/L (May 2016)
- <sup>2</sup> = United States Environmental Protection Agency Tap Water Regional Screening Level for Acetone = 14,000 µg/L (May 2016)
- Sample intervals reported in feet below ground surface
- Italicized* values are estimated concentrations (J-Flagged) between laboratory Method Detection Limit (MDL) and Reporting Limit (RL)
- Bold** values represent concentrations above the laboratory RL
- Yellow shaded values indicate concentrations above the MCL

## FIGURES





# FORT DEARBORN

DRAWN BY:	CHB	DATE:	09/01/16
CHECKED BY:	LLM	DATE:	09/30/16
PROJECT NO:	6251161022.01.01		

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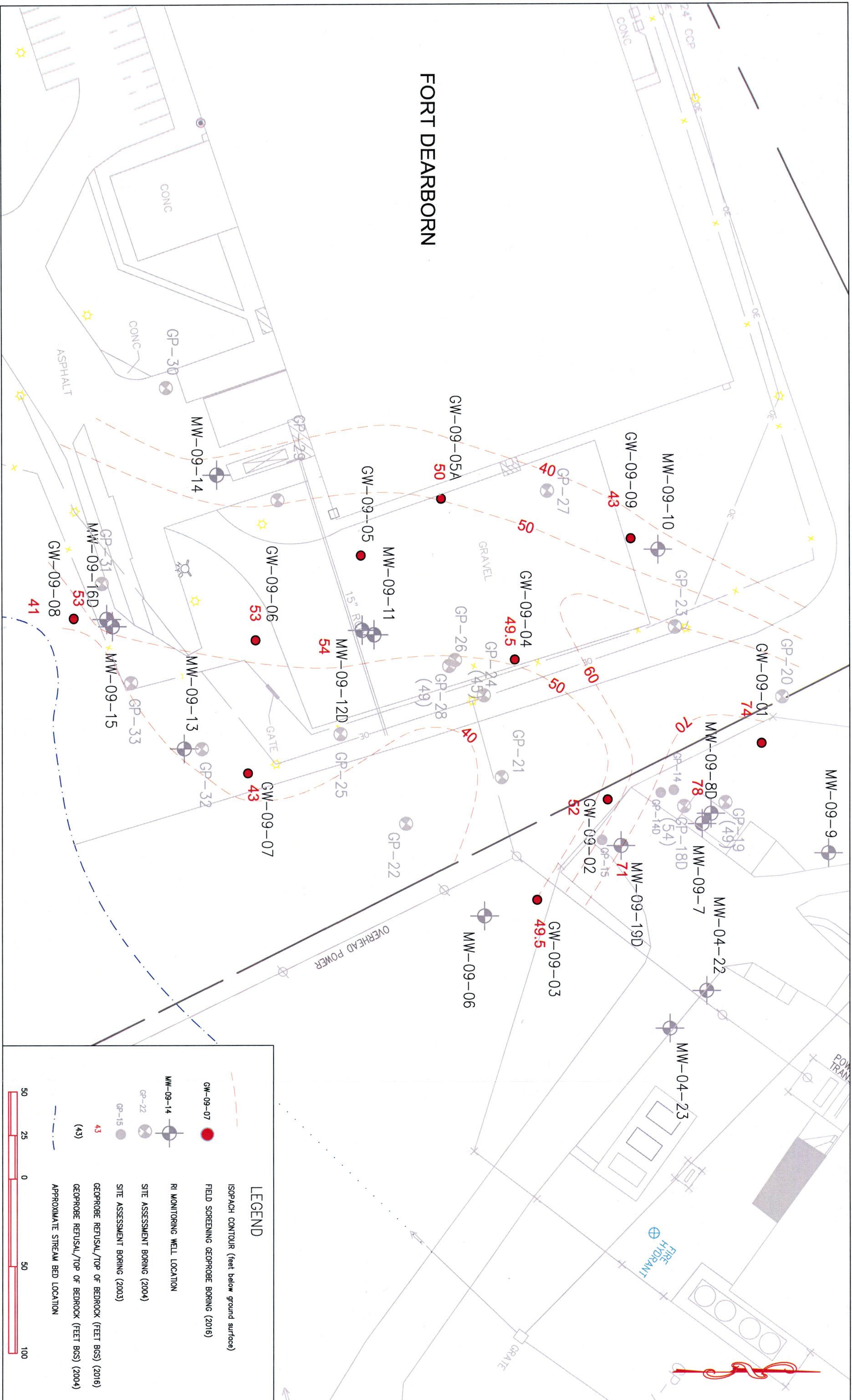
FORMER RBTC FOUNTAIN INN DIVISION/FORT DEARBORN PROPERTIES	FIELD SCREENING BORING LOCATIONS	FIGURE
FOUNTAIN INN, SOUTH CAROLINA		1

### LEGEND

- FIELD SCREENING GEOPROBE BORING (2016)
- MW-09-14 RI MONITORING WELL LOCATION
- GP-22 SITE ASSESSMENT BORING (2005)
- GP-15 SITE ASSESSMENT BORING (2003)
- APPROXIMATE STREAM BED LOCATION



# FORT DEARBORN



**LEGEND**

- ISOPACH CONTOUR (feet below ground surface)
- FIELD SCREENING GEOPROBE BORING (2016)
- RI MONITORING WELL LOCATION
- MW-09-14
- SITE ASSESSMENT BORING (2004)
- GP-22
- SITE ASSESSMENT BORING (2003)
- GP-15
- GEOPROBE REFUSAL/TOP OF BEDROCK (FEET BGS) (2016)
- (43)
- GEOPROBE REFUSAL/TOP OF BEDROCK (FEET BGS) (2004)
- APPROXIMATE STREAM BED LOCATION



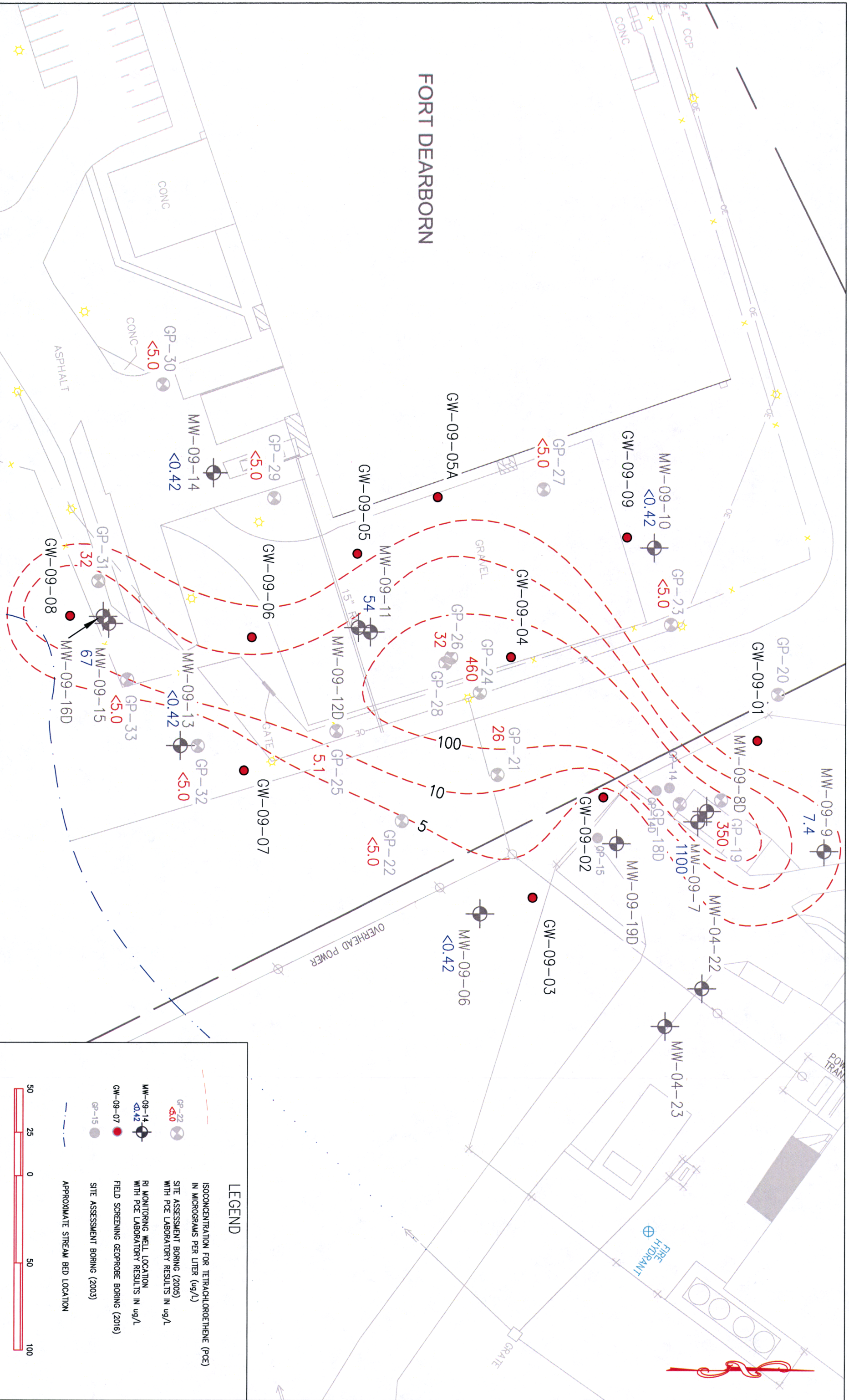
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OVERBURDEN (SAPROLITE) THICKNESS ISOPACH CONTOUR MAP  
FORMER RBTC FOUNTAIN INN DIVISION/FORT DEARBORN PROPERTIES  
FOUNTAIN INN, SOUTH CAROLINA





**FORT DEARBORN**

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FORMER RBTC FOUNTAIN INN DIVISION/FORT DEARBORN PROPERTIES  
FOUNTAIN INN, SOUTH CAROLINA

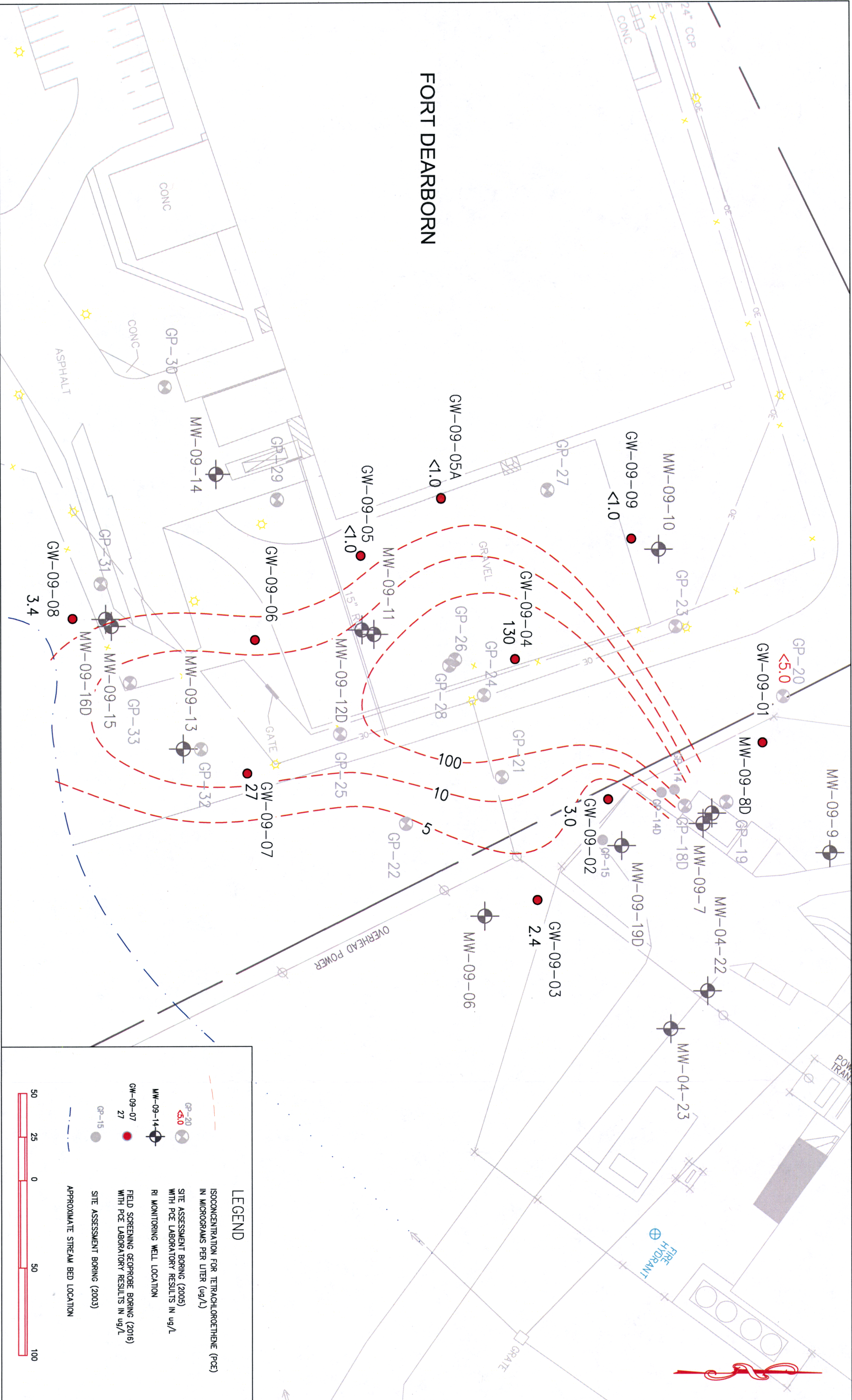
**LEGEND**

- ISOCONCENTRATION FOR TETRACHLOROETHENE (PCE) IN MICROGRAMS PER LITER (ug/L)
- SITE ASSESSMENT BORING (2005) WITH PCE LABORATORY RESULTS IN ug/L
- RI MONITORING WELL LOCATION WITH PCE LABORATORY RESULTS IN ug/L
- FIELD SCREENING GEOPROBE BORING (2016)
- SITE ASSESSMENT BORING (2003)
- APPROXIMATE STREAM BED LOCATION

ISOCONCENTRATION CONTOUR  
SHALLOW ZONE (10 feet - 25 feet bgs)

50 25 0 50 100





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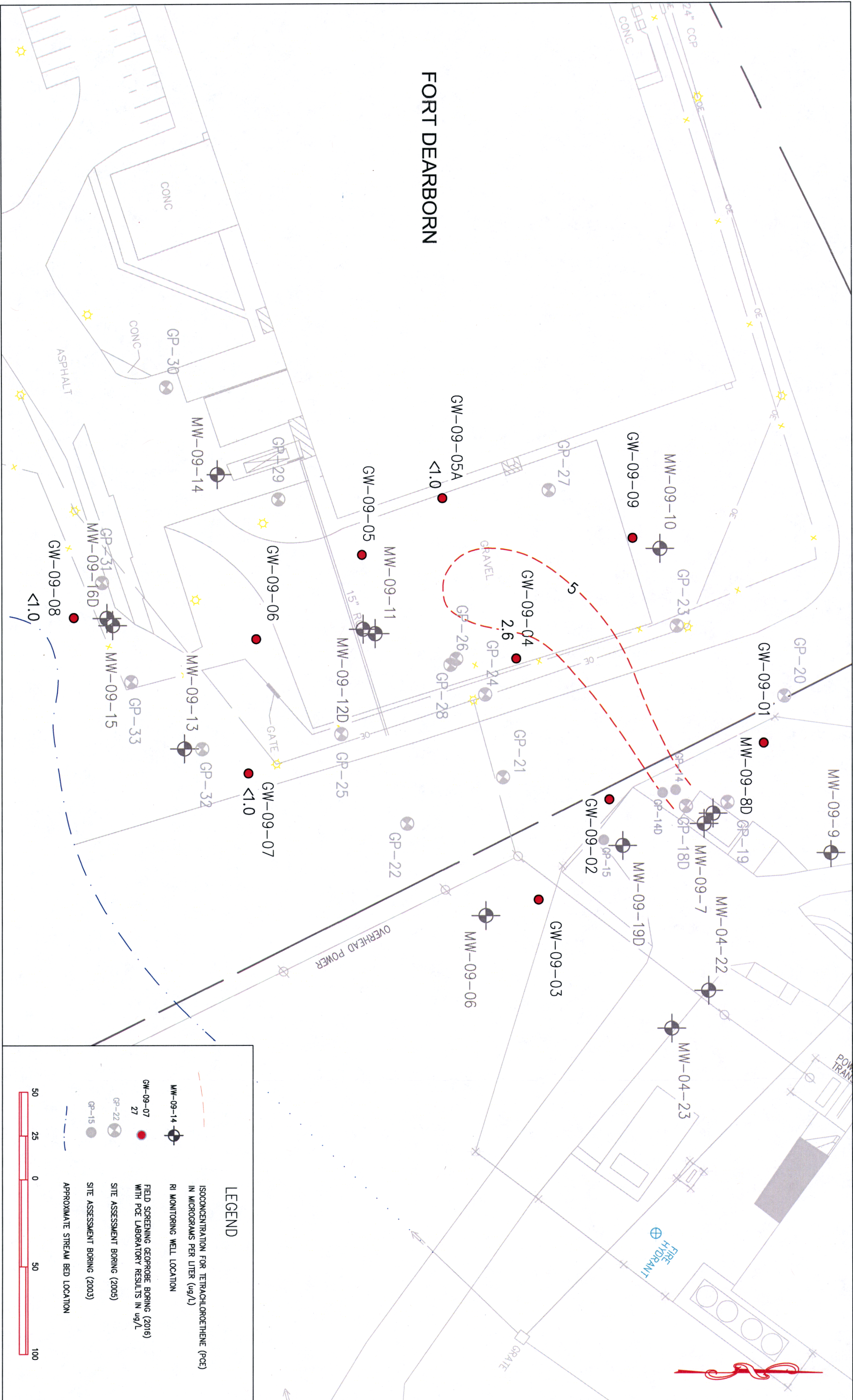
FORMER RBTC FOUNTAIN INN DIVISION/FORT DEARBORN PROPERTIES  
FOUNTAIN INN, SOUTH CAROLINA

**LEGEND**

- ISOCONCENTRATION FOR TETRACHLOROETHENE (PCE) IN MICROGRAMS PER LITER (ug/L)
- SITE ASSESSMENT BORING (2005) WITH PCE LABORATORY RESULTS IN ug/L
- RI MONITORING WELL LOCATION
- FIELD SCREENING GEOPROBE BORING (2016) WITH PCE LABORATORY RESULTS IN ug/L
- SITE ASSESSMENT BORING (2003)
- APPROXIMATE STREAM BED LOCATION

Scale: 0, 25, 50, 100 feet





**FORT DEARBORN**

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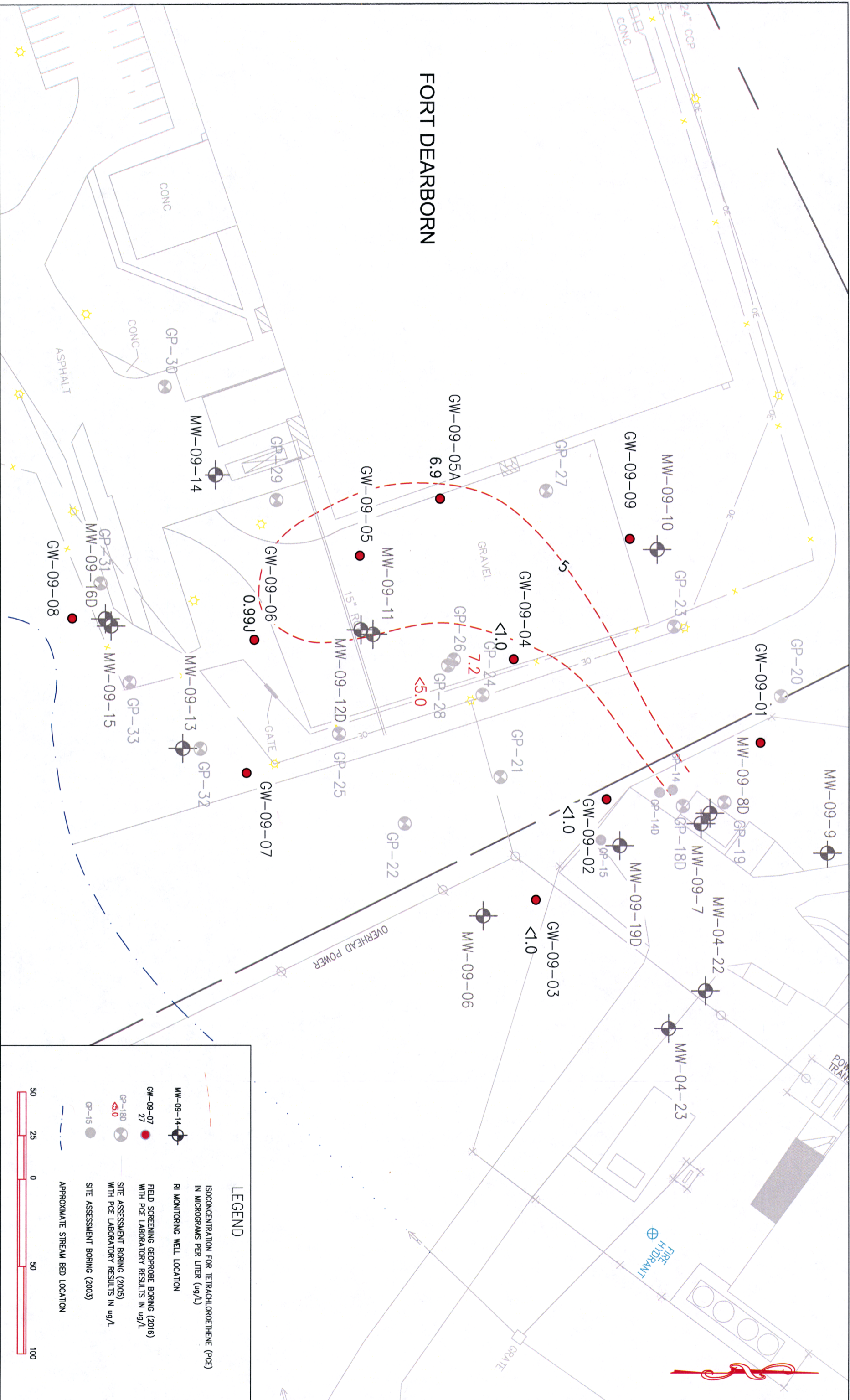
PCE ISOCONCENTRATION CONTOUR  
INTERMEDIATE ZONE B (36 feet - 40 feet bgs)  
FORMER RBTC FOUNTAIN INN DIVISION/FORT DEARBORN PROPERTIES  
FOUNTAIN INN, SOUTH CAROLINA

**LEGEND**

- ISOCONCENTRATION FOR TETRACHLOROETHENE (PCE) IN MICROGRAMS PER LITER (ug/L)
- MW-09-14 - RI MONITORING WELL LOCATION
- GW-09-07 - FIELD SCREENING GEOPROBE BORING (2016) WITH PCE LABORATORY RESULTS IN ug/L
- GP-22 - SITE ASSESSMENT BORING (2005)
- GP-15 - SITE ASSESSMENT BORING (2003)
- APPROXIMATE STREAM BED LOCATION

*[Handwritten signature]*





# FORT DEARBORN

DRAWN BY:	CHB	DATE:	09/01/16
CHECKED BY:	LLM	DATE:	09/30/16
PROJECT NO.:	6251161022.01.01		

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PCE ISOCENTRATION CONTOURS  
DEEP ZONE (46 feet - 50 feet bgs)  
FORMER RBTC FOUNTAIN INN DIVISION/FORT DEARBORN PROPERTIES  
FOUNTAIN INN, SOUTH CAROLINA

FIGURE 6

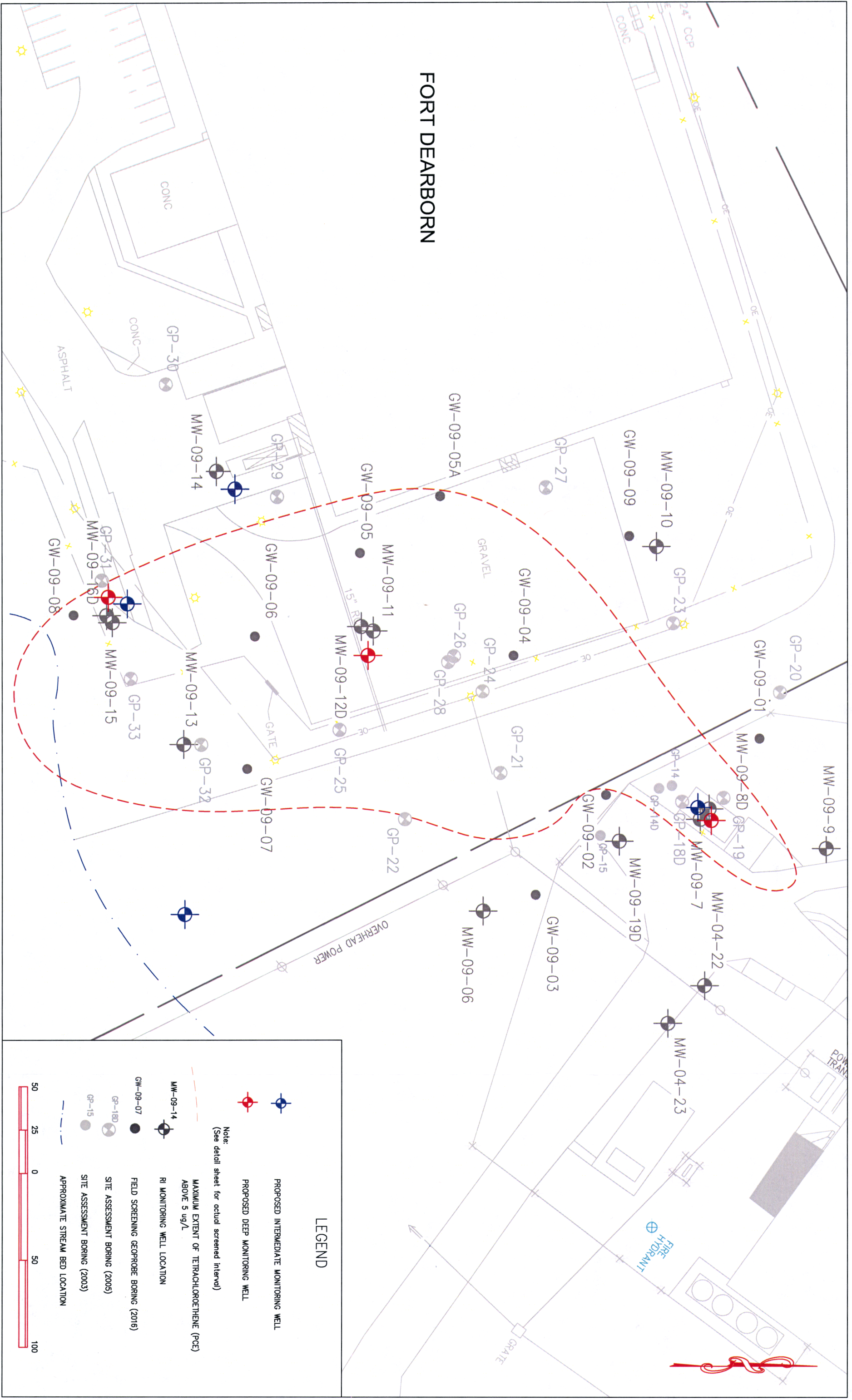
### LEGEND

- ISOCENTRATION FOR TETRACHLOROETHENE (PCE) IN MICROGRAMS PER LITER (ug/L)
- MW-09-14-07 RI MONITORING WELL LOCATION
- GW-09-07 FIELD SCREENING GEOPROBE BORING (2016) WITH PCE LABORATORY RESULTS IN ug/L
- GP-180 SITE ASSESSMENT BORING (2005) WITH PCE LABORATORY RESULTS IN ug/L
- GP-15 SITE ASSESSMENT BORING (2003)
- APPROXIMATE STREAM BED LOCATION





# FORT DEARBORN



## LEGEND

- PROPOSED INTERMEDIATE MONITORING WELL
  - PROPOSED DEEP MONITORING WELL
  - RI MONITORING WELL LOCATION
  - FIELD SCREENING GEOPROBE BORING (2016)
  - SITE ASSESSMENT BORING (2005)
  - SITE ASSESSMENT BORING (2003)
  - APPROXIMATE STREAM BED LOCATION
  - MAXIMUM EXTENT OF TETRACHLOROETHENE (PCE) ABOVE 5 ug/L
  - MW-09-14
  - GW-09-07
  - GP-18D
  - GP-15
- Note:  
(See detail sheet for actual screened interval)



DRAWN BY:	CHB	DATE:	09/01/16
CHECKED BY:	LLM	DATE:	09/30/16
PROJECT NO:	6251161022.01.01		

REVISIONS	
No.	DESCRIPTION

**amec foster wheeler**

37 WILA ROAD  
SUITE 201  
GREENVILLE, S.C. 29615  
Phone: (864) 552-9624  
Fax: (864) 552-9699

PROPOSED ADDITIONAL MONITORING WELL LOCATIONS  
FORMER RBTC FOUNTAIN INN DIVISION/FORT DEARBORN PROPERTIES  
FOUNTAIN INN, SOUTH CAROLINA

**APPENDIX A**



**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**

August 19, 2016

Paul Johnstone  
AMEC E&I, Inc.  
37 Villa Rd.  
Greenville SC 29615

TEL: (864) 552-9624  
FAX: (864) 552-9699

RE: RBTC Fountain Inn

Dear Paul Johnstone:

Order No: 1608B40

Analytical Environmental Services, Inc. received 18 samples on 8/13/2016 12:00:00 PM for the analyses presented in following report.

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

-South Carolina Certification number 98016003 for Clean Water Act and for Solid and Hazardous Waste, effective until 6/30/17.

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

**CHAIN OF CUSTODY**

Work Order: 1608B40

Date: 8-12-16 Page 1 of 2

COMPANY <b>AMEC FW</b>		ADDRESS: <b>37 Villa Road, Suite 201 Greenville, SC 29615</b>		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 <b>864-666-7002</b>		FAX		8640 NCL									
SAMPLED BY <b>Lori Mauldin</b>		SIGNATURE <i>Lori Mauldin</i>											
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)				REMARKS		
		DATE	TIME				HT	WT	REF	STAB			
1	TB-01	8-10	800	X		GW	X					X	
2	GW-09-02 (30')	8-12	800	X		GW	X					X	
3	GW-09-02 (50')	8-12	845	X			X					X	
4	GW-09-03 (30')	8-12	930	X			X					X	
5	GW-09-03 (50')	8-12	1005	X			X					X	
6	GW-09-04 (20')	8-10	1240	X			X					X	
7	GW-09-04 (40')	8-11	840	X			X					X	
8	GW-09-04 (50')	8-11	900	X			X					X	
9	GW-09-05 (30')	8-10	820	X			X					X	
10	GW-09-05A (30')	8-11	1030	X			X					X	
11	GW-09-05A (30')(40')	8-11	1115	X			X					X	
12	GW-09-05A (50')	8-11	1130	X			X					X	
13	GW-09-06 (50')	8-11	1025	X			X					X	
14	GW-09-07 (30')	8-11	1350	X			X					X	
RELINQUISHED BY <b>Lori Mauldin</b>		DATE/TIME <b>8-12-16 1600</b>		RECEIVED BY <b>Fedex</b>		DATE/TIME <b>8-13-16 12:00</b>		PROJECT INFORMATION PROJECT NAME: <b>RBTC - Fountain Inn</b> PROJECT #: <b>6251161022</b> SITE ADDRESS: <b>Fountain Inn, SC</b> SEND REPORT TO: <b>Paul Johnston</b>				RECEIPT Total # of Containers <b>28</b>	
SPECIAL INSTRUCTIONS/COMMENTS: <b>(24)C</b>		SHIPMENT METHOD OUT / IN VIA: <b>UPS MAIL COURIER</b> CLIENT CODE: <b>GREYHOUND</b> OTHER		INVOICE TO: (IF DIFFERENT FROM ABOVE)		QUOTE #:		PO#:		TURNDOWN TIME REQUEST <input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other			
STATE PROGRAM (if any) <b>SC</b>		E-mail? <input checked="" type="radio"/> N, Fax? <input type="radio"/> Y/N		DATA PACKAGE <b>I II III IV</b>									

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.  
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

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

Page 2 of 48  
 White Copy - Original; Yellow Copy - Client





# ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

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

## CHAIN OF CUSTODY

Work Order: 11008B40

Date: 8-12-14 Page 2 of 2

COMPANY <b>AMEC FW</b>		ADDRESS:		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: 864-666-7002		FAX:		PRESERVATION (See codes)					
SAMPLED BY: <b>Lori Mauldin</b>		SIGNATURE: <i>Lori Mauldin</i>							
#	SAMPLE ID	SAMPLED DATE	TIME	Grab	Composite	Matrix (See codes)	REMARKS		
1	GN-09-07 (40')	8-10	1420	X		GW		2	
2	GN-09-08 (30')	8-10	1305	X		L		2	
3	GN-09-08 (40')	8-10	1320	X		L		2	
4	GN-09-09 (30')	8-12	1100	X		L		2	
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY: <b>Lori Mauldin</b>	DATE/TIME: <b>8-12-14 1100</b>	RECEIVED BY: <b>Fedex</b>	DATE/TIME: <b>8/13/14</b>	PROJECT INFORMATION: <b>RBTC - Fountain Inn</b>	RECEIPT: <b>8/36</b>
		2: <b>Park Mesa</b>		PROJECT # <b>6251161022</b>	
		3: <b>(Fed Ex)</b>		SITE ADDRESS: <b>Fountain Inn, SC</b>	
SPECIAL INSTRUCTIONS/COMMENTS: <b>(24°C)</b>		SHIPMENT METHOD:		SEND REPORT TO: <b>Paul Johnstone</b>	
		OUT: / / VIA:		INVOICE TO (IF DIFFERENT FROM ABOVE):	
		CLIENT: <b>FedEx</b> UPS MAIL COURIER		STATE PROGRAM (if any):	
		GREYHOUND OTHER		E-mail? Y/N, Fax? Y/N	
				DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.  
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES. A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

RESERVATIVE CODES. H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Page 3 of 48  
White Copy - Original; Yellow Copy - Client

**Client:** AMEC E&I, Inc.  
**Project:** RBTC Fountain Inn  
**Lab ID:** 1608B40

**Case Narrative**

**Sample Receiving Non-conformance:**

One vial for sample 003 "GW-09-02 (50)" was received with headspace present as signified by >1/4 inch bubble present. Sample labeled as vial "2 of 2." The laboratory used vial 1 of 2 to analyze the sample.



**Analytical Environmental Services, Inc**

**Date:** 19-Aug-16

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> TB-01
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/10/2016 8:00:00 AM
<b>Lab ID:</b> 1608B40-001	<b>Matrix:</b> Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS</b>		<b>SW8260B</b>		<b>(SW5030B)</b>					
Methylene chloride	BRL		0.31	5.0	ug/L	228224	1	08/16/2016 11:38	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 11:38	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 11:38	NP
Tetrachloroethene	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 11:38	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 11:38	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 11:38	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 11:38	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 11:38	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 11:38	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 11:38	NP
Surr: 4-Bromofluorobenzene	98.5		0	70-130	%REC	228224	1	08/16/2016 11:38	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	228224	1	08/16/2016 11:38	NP
Surr: Toluene-d8	103		0	70-130	%REC	228224	1	08/16/2016 11:38	NP

**Qualifiers:**

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

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-02 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/12/2016 8:00:00 AM
<b>Lab ID:</b> 1608B40-002	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>									
									<b>(SW5030B)</b>
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 12:01	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 12:01	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 12:01	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 12:01	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 12:01	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 12:01	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 12:01	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 12:01	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:01	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 12:01	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 12:01	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:01	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 12:01	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 12:01	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 12:01	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 12:01	NP
Acetone	BRL		5.3	20	ug/L	228224	1	08/16/2016 12:01	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 12:01	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 12:01	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 12:01	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 12:01	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 12:01	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 12:01	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 12:01	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 12:01	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 12:01	NP

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

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-02 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/12/2016 8:00:00 AM
<b>Lab ID:</b> 1608B40-002	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>							
Methylene chloride	1.0	J	0.31	5.0	ug/L	228224	1	08/16/2016 12:01	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Tetrachloroethene	3.0		0.29	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 12:01	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 12:01	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 12:01	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 12:01	NP
Surr: 4-Bromofluorobenzene	96.8		0	70-130	%REC	228224	1	08/16/2016 12:01	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	228224	1	08/16/2016 12:01	NP
Surr: Toluene-d8	104		0	70-130	%REC	228224	1	08/16/2016 12:01	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-02 (50')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/12/2016 8:45:00 AM
<b>Lab ID:</b> 1608B40-003	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>							
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 12:26	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 12:26	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 12:26	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 12:26	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 12:26	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 12:26	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 12:26	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 12:26	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:26	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 12:26	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 12:26	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:26	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 12:26	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 12:26	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 12:26	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 12:26	NP
Acetone	BRL		5.3	20	ug/L	228224	1	08/16/2016 12:26	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 12:26	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 12:26	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 12:26	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 12:26	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 12:26	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 12:26	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 12:26	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 12:26	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 12:26	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-02 (50')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/12/2016 8:45:00 AM
<b>Lab ID:</b> 1608B40-003	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>						
Methylene chloride	1.2	J	0.31	5.0	ug/L	228224	1	08/16/2016 12:26	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Tetrachloroethene	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 12:26	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 12:26	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 12:26	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 12:26	NP
Surr: 4-Bromofluorobenzene	96.5		0	70-130	%REC	228224	1	08/16/2016 12:26	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	228224	1	08/16/2016 12:26	NP
Surr: Toluene-d8	104		0	70-130	%REC	228224	1	08/16/2016 12:26	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative



<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-03 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/12/2016 9:30:00 AM
<b>Lab ID:</b> 1608B40-004	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS</b>		<b>SW8260B</b>		<b>(SW5030B)</b>					
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 12:49	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 12:49	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 12:49	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 12:49	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 12:49	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 12:49	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 12:49	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 12:49	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:49	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 12:49	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 12:49	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:49	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 12:49	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 12:49	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 12:49	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 12:49	NP
Acetone	BRL		5.3	20	ug/L	228224	1	08/16/2016 12:49	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 12:49	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 12:49	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 12:49	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 12:49	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 12:49	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 12:49	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 12:49	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 12:49	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 12:49	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-03 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/12/2016 9:30:00 AM
<b>Lab ID:</b> 1608B40-004	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>							
Methylene chloride	BRL		0.31	5.0	ug/L	228224	1	08/16/2016 12:49	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Tetrachloroethene	2.4		0.29	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 12:49	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 12:49	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 12:49	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 12:49	NP
Surr: 4-Bromofluorobenzene	96.4		0	70-130	%REC	228224	1	08/16/2016 12:49	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	228224	1	08/16/2016 12:49	NP
Surr: Toluene-d8	103		0	70-130	%REC	228224	1	08/16/2016 12:49	NP

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

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-03 (50')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/12/2016 10:05:00 AM
<b>Lab ID:</b> 1608B40-005	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>									
								<b>(SW5030B)</b>	
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 13:12	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 13:12	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 13:12	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 13:12	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 13:12	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 13:12	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 13:12	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 13:12	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:12	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 13:12	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 13:12	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:12	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 13:12	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 13:12	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 13:12	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 13:12	NP
Acetone	BRL		5.3	20	ug/L	228224	1	08/16/2016 13:12	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 13:12	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 13:12	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 13:12	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 13:12	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 13:12	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 13:12	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 13:12	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 13:12	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 13:12	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 13:12	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative



<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-04 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/10/2016 12:40:00 PM
<b>Lab ID:</b> 1608B40-006	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>									
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 13:35	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 13:35	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 13:35	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 13:35	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 13:35	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 13:35	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 13:35	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 13:35	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:35	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 13:35	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 13:35	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:35	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 13:35	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 13:35	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 13:35	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 13:35	NP
Acetone	12	J	5.3	20	ug/L	228224	1	08/16/2016 13:35	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 13:35	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 13:35	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 13:35	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 13:35	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 13:35	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 13:35	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 13:35	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 13:35	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 13:35	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

Date: 19-Aug-16

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-04 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/10/2016 12:40:00 PM
<b>Lab ID:</b> 1608B40-006	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>						<b>(SW5030B)</b>			
Methylene chloride	1.0	J	0.31	5.0	ug/L	228224	1	08/16/2016 13:35	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Tetrachloroethene	130		0.29	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 13:35	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 13:35	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 13:35	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 13:35	NP
Surr: 4-Bromofluorobenzene	99		0	70-130	%REC	228224	1	08/16/2016 13:35	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	228224	1	08/16/2016 13:35	NP
Surr: Toluene-d8	102		0	70-130	%REC	228224	1	08/16/2016 13:35	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-04 (40')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/11/2016 8:40:00 AM
<b>Lab ID:</b> 1608B40-007	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>							
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 13:59	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 13:59	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 13:59	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 13:59	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 13:59	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 13:59	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 13:59	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 13:59	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:59	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 13:59	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 13:59	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:59	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 13:59	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 13:59	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 13:59	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 13:59	NP
Acetone	15	J	5.3	20	ug/L	228224	1	08/16/2016 13:59	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 13:59	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 13:59	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 13:59	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 13:59	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 13:59	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 13:59	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 13:59	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 13:59	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 13:59	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 19-Aug-16

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-04 (40')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/11/2016 8:40:00 AM
<b>Lab ID:</b> 1608B40-007	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>						<b>(SW5030B)</b>			
Methylene chloride	1.4	J	0.31	5.0	ug/L	228224	1	08/16/2016 13:59	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Tetrachloroethene	2.6		0.29	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 13:59	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 13:59	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 13:59	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 13:59	NP
Surr: 4-Bromofluorobenzene	98.1		0	70-130	%REC	228224	1	08/16/2016 13:59	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	228224	1	08/16/2016 13:59	NP
Surr: Toluene-d8	104		0	70-130	%REC	228224	1	08/16/2016 13:59	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative



<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-04 (50')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/11/2016 9:00:00 AM
<b>Lab ID:</b> 1608B40-008	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>							
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 14:23	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 14:23	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 14:23	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 14:23	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 14:23	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 14:23	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 14:23	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 14:23	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 14:23	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 14:23	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 14:23	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 14:23	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 14:23	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 14:23	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 14:23	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 14:23	NP
Acetone	BRL		5.3	20	ug/L	228224	1	08/16/2016 14:23	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 14:23	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 14:23	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 14:23	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 14:23	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 14:23	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 14:23	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 14:23	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 14:23	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 14:23	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-04 (50')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/11/2016 9:00:00 AM
<b>Lab ID:</b> 1608B40-008	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS</b>		<b>SW8260B</b>		<b>(SW5030B)</b>					
Methylene chloride	BRL		0.31	5.0	ug/L	228224	1	08/16/2016 14:23	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Tetrachloroethene	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 14:23	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 14:23	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 14:23	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 14:23	NP
Surr: 4-Bromofluorobenzene	95.1		0	70-130	%REC	228224	1	08/16/2016 14:23	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	228224	1	08/16/2016 14:23	NP
Surr: Toluene-d8	103		0	70-130	%REC	228224	1	08/16/2016 14:23	NP

Qualifiers: \* Value exceeds maximum contaminant level  
 BRL Not detected at MDL  
 H Holding times for preparation or analysis exceeded  
 N Analyte not NELAC certified  
 B Analyte detected in the associated method blank  
 NC Not confirmed

E Estimated value above quantitation range  
 S Spike Recovery outside limits due to matrix  
 J Estimated value detected below Reporting Limit  
 > Greater than Result value  
 < Less than Result value  
 Narr See case narrative



**Analytical Environmental Services, Inc**

**Date:** 19-Aug-16

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-05 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/10/2016 8:20:00 AM
<b>Lab ID:</b> 1608B40-009	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>							
Methylene chloride	1.2	J	0.31	5.0	ug/L	228224	1	08/16/2016 14:47	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 14:47	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 14:47	NP
Tetrachloroethene	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 14:47	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 14:47	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 14:47	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 14:47	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 14:47	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 14:47	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 14:47	NP
Surr: 4-Bromofluorobenzene	97.9		0	70-130	%REC	228224	1	08/16/2016 14:47	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	228224	1	08/16/2016 14:47	NP
Surr: Toluene-d8	103		0	70-130	%REC	228224	1	08/16/2016 14:47	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative



**Analytical Environmental Services, Inc**

Date: 19-Aug-16

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-05A (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/11/2016 10:30:00 AM
<b>Lab ID:</b> 1608B40-010	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>							
Methylene chloride	BRL		0.31	5.0	ug/L	228224	1	08/17/2016 13:44	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/17/2016 13:44	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/17/2016 13:44	NP
Tetrachloroethene	BRL		0.29	1.0	ug/L	228224	1	08/17/2016 13:44	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/17/2016 13:44	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/17/2016 13:44	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/17/2016 13:44	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/17/2016 13:44	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/17/2016 13:44	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/17/2016 13:44	NP
Surr: 4-Bromofluorobenzene	95		0	70-130	%REC	228224	1	08/17/2016 13:44	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	228224	1	08/17/2016 13:44	NP
Surr: Toluene-d8	102		0	70-130	%REC	228224	1	08/17/2016 13:44	NP

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



<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-05A (40')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/11/2016 11:15:00 AM
<b>Lab ID:</b> 1608B40-011	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>							
Methylene chloride	BRL		0.31	5.0	ug/L	228224	1	08/16/2016 15:34	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 15:34	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 15:34	NP
Tetrachloroethene	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 15:34	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 15:34	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 15:34	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 15:34	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 15:34	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 15:34	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 15:34	NP
Surr: 4-Bromofluorobenzene	97.4		0	70-130	%REC	228224	1	08/16/2016 15:34	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	228224	1	08/16/2016 15:34	NP
Surr: Toluene-d8	101		0	70-130	%REC	228224	1	08/16/2016 15:34	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative



<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-05A (50')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/11/2016 11:30:00 AM
<b>Lab ID:</b> 1608B40-012	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>							
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 15:57	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 15:57	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 15:57	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 15:57	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 15:57	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 15:57	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 15:57	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 15:57	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 15:57	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 15:57	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 15:57	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 15:57	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 15:57	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 15:57	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 15:57	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 15:57	NP
Acetone	BRL		5.3	20	ug/L	228224	1	08/16/2016 15:57	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 15:57	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 15:57	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 15:57	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 15:57	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 15:57	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 15:57	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 15:57	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 15:57	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 15:57	NP

Qualifiers: \* Value exceeds maximum contaminant level  
 BRL Not detected at MDL  
 H Holding times for preparation or analysis exceeded  
 N Analyte not NELAC certified  
 B Analyte detected in the associated method blank  
 NC Not confirmed

E Estimated value above quantitation range  
 S Spike Recovery outside limits due to matrix  
 J Estimated value detected below Reporting Limit  
 > Greater than Result value  
 < Less than Result value  
 Narr See case narrative

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-05A (50')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/11/2016 11:30:00 AM
<b>Lab ID:</b> 1608B40-012	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>						<b>(SW5030B)</b>			
Methylene chloride	BRL		0.31	5.0	ug/L	228224	1	08/16/2016 15:57	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Tetrachloroethene	6.9		0.29	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 15:57	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 15:57	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 15:57	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 15:57	NP
Surr: 4-Bromofluorobenzene	94.3		0	70-130	%REC	228224	1	08/16/2016 15:57	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	228224	1	08/16/2016 15:57	NP
Surr: Toluene-d8	102		0	70-130	%REC	228224	1	08/16/2016 15:57	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-06 (50')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/11/2016 10:25:00 AM
<b>Lab ID:</b> 1608B40-013	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>							
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 16:21	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 16:21	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 16:21	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 16:21	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 16:21	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 16:21	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 16:21	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 16:21	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 16:21	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 16:21	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 16:21	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 16:21	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 16:21	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 16:21	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 16:21	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 16:21	NP
Acetone	BRL		5.3	20	ug/L	228224	1	08/16/2016 16:21	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 16:21	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 16:21	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 16:21	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 16:21	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 16:21	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 16:21	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 16:21	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 16:21	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 16:21	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 16:21	NP

Qualifiers: \* Value exceeds maximum contaminant level  
 BRL Not detected at MDL  
 H Holding times for preparation or analysis exceeded  
 N Analyte not NELAC certified  
 B Analyte detected in the associated method blank  
 NC Not confirmed

E Estimated value above quantitation range  
 S Spike Recovery outside limits due to matrix  
 J Estimated value detected below Reporting Limit  
 > Greater than Result value  
 < Less than Result value  
 Narr See case narrative





<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-07 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/11/2016 1:50:00 PM
<b>Lab ID:</b> 1608B40-014	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>						<b>(SW5030B)</b>			
Methylene chloride	BRL		0.31	5.0	ug/L	228224	1	08/16/2016 16:44	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 16:44	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 16:44	NP
Tetrachloroethene	27		0.29	1.0	ug/L	228224	1	08/16/2016 16:44	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 16:44	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 16:44	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 16:44	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 16:44	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 16:44	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 16:44	NP
Surr: 4-Bromofluorobenzene	97.6		0	70-130	%REC	228224	1	08/16/2016 16:44	NP
Surr: Dibromofluoromethane	104		0	70-130	%REC	228224	1	08/16/2016 16:44	NP
Surr: Toluene-d8	104		0	70-130	%REC	228224	1	08/16/2016 16:44	NP

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

Analytical Environmental Services, Inc

Date: 19-Aug-16

Client:	AMEC E&I, Inc.	Client Sample ID:	GW-09-07 (40')
Project Name:	RBTC Fountain Inn	Collection Date:	8/10/2016 2:20:00 PM
Lab ID:	1608B40-015	Matrix:	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>						
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/17/2016 14:07	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/17/2016 14:07	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/17/2016 14:07	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/17/2016 14:07	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/17/2016 14:07	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/17/2016 14:07	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/17/2016 14:07	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/17/2016 14:07	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/17/2016 14:07	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/17/2016 14:07	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/17/2016 14:07	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/17/2016 14:07	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/17/2016 14:07	NP
2-Butanone	15	J	2.9	10	ug/L	228224	1	08/17/2016 14:07	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/17/2016 14:07	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/17/2016 14:07	NP
Acetone	20	J	5.3	20	ug/L	228224	1	08/17/2016 14:07	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/17/2016 14:07	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/17/2016 14:07	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/17/2016 14:07	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/17/2016 14:07	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/17/2016 14:07	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/17/2016 14:07	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/17/2016 14:07	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/17/2016 14:07	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/17/2016 14:07	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/17/2016 14:07	NP

Qualifiers:

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative





<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-08 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/10/2016 1:05:00 PM
<b>Lab ID:</b> 1608B40-016	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>									
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 17:32	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 17:32	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 17:32	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 17:32	NP
1,1-Dichloroethane	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 17:32	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 17:32	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 17:32	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 17:32	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 17:32	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 17:32	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 17:32	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 17:32	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 17:32	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 17:32	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 17:32	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 17:32	NP
Acetone	BRL		5.3	20	ug/L	228224	1	08/16/2016 17:32	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 17:32	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 17:32	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 17:32	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 17:32	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 17:32	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 17:32	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 17:32	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 17:32	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 17:32	NP

Qualifiers: \* Value exceeds maximum contaminant level  
 BRL Not detected at MDL  
 H Holding times for preparation or analysis exceeded  
 N Analyte not NELAC certified  
 B Analyte detected in the associated method blank  
 NC Not confirmed

E Estimated value above quantitation range  
 S Spike Recovery outside limits due to matrix  
 J Estimated value detected below Reporting Limit  
 > Greater than Result value  
 < Less than Result value  
 Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 19-Aug-16

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-08 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/10/2016 1:05:00 PM
<b>Lab ID:</b> 1608B40-016	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS</b>		<b>SW8260B</b>		<b>(SW5030B)</b>					
Methylene chloride	BRL		0.31	5.0	ug/L	228224	1	08/16/2016 17:32	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Tetrachloroethene	3.4		0.29	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 17:32	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 17:32	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 17:32	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 17:32	NP
Surr: 4-Bromofluorobenzene	96.3		0	70-130	%REC	228224	1	08/16/2016 17:32	NP
Surr: Dibromofluoromethane	107		0	70-130	%REC	228224	1	08/16/2016 17:32	NP
Surr: Toluene-d8	104		0	70-130	%REC	228224	1	08/16/2016 17:32	NP

**Qualifiers:**

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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-08 (40')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/10/2016 1:20:00 PM
<b>Lab ID:</b> 1608B40-017	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>						
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 17:55	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 17:55	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 17:55	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 17:55	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 17:55	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 17:55	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 17:55	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 17:55	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 17:55	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 17:55	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 17:55	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 17:55	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 17:55	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 17:55	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 17:55	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 17:55	NP
Acetone	BRL		5.3	20	ug/L	228224	1	08/16/2016 17:55	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 17:55	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 17:55	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 17:55	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 17:55	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 17:55	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 17:55	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 17:55	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 17:55	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 17:55	NP

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-08 (40')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/10/2016 1:20:00 PM
<b>Lab ID:</b> 1608B40-017	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>						<b>(SW5030B)</b>			
Methylene chloride	1.2	J	0.31	5.0	ug/L	228224	1	08/16/2016 17:55	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Tetrachloroethene	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 17:55	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 17:55	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 17:55	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 17:55	NP
Surr: 4-Bromofluorobenzene	97.5		0	70-130	%REC	228224	1	08/16/2016 17:55	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	228224	1	08/16/2016 17:55	NP
Surr: Toluene-d8	102		0	70-130	%REC	228224	1	08/16/2016 17:55	NP

**Qualifiers:**

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- Narr See case narrative

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-09 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/12/2016 11:00:00 AM
<b>Lab ID:</b> 1608B40-018	<b>Matrix:</b> Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>						
1,1,1-Trichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 18:19	NP
1,1,2,2-Tetrachloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 18:19	NP
1,1,2-Trichloroethane	BRL		0.38	1.0	ug/L	228224	1	08/16/2016 18:19	NP
1,1-Dichloroethane	BRL		0.25	1.0	ug/L	228224	1	08/16/2016 18:19	NP
1,1-Dichloroethene	BRL		0.36	2.0	ug/L	228224	1	08/16/2016 18:19	NP
1,2,4-Trichlorobenzene	BRL		0.18	1.0	ug/L	228224	1	08/16/2016 18:19	NP
1,2-Dibromo-3-chloropropane	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 18:19	NP
1,2-Dibromoethane	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 18:19	NP
1,2-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 18:19	NP
1,2-Dichloroethane	BRL		0.24	1.0	ug/L	228224	1	08/16/2016 18:19	NP
1,2-Dichloropropane	BRL		0.23	1.0	ug/L	228224	1	08/16/2016 18:19	NP
1,3-Dichlorobenzene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 18:19	NP
1,4-Dichlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 18:19	NP
2-Butanone	BRL		2.9	10	ug/L	228224	1	08/16/2016 18:19	NP
2-Hexanone	BRL		3.2	10	ug/L	228224	1	08/16/2016 18:19	NP
4-Methyl-2-pentanone	BRL		2.7	10	ug/L	228224	1	08/16/2016 18:19	NP
Acetone	BRL		5.3	20	ug/L	228224	1	08/16/2016 18:19	NP
Benzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Bromodichloromethane	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Bromoform	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Bromomethane	BRL		0.46	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Carbon disulfide	BRL		0.46	5.0	ug/L	228224	1	08/16/2016 18:19	NP
Carbon tetrachloride	BRL		0.24	2.0	ug/L	228224	1	08/16/2016 18:19	NP
Chlorobenzene	BRL		0.14	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Chloroethane	BRL		0.39	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Chloroform	BRL		0.30	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Chloromethane	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 18:19	NP
cis-1,2-Dichloroethene	BRL		0.27	1.0	ug/L	228224	1	08/16/2016 18:19	NP
cis-1,3-Dichloropropene	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Cyclohexane	BRL		1.6	2.0	ug/L	228224	1	08/16/2016 18:19	NP
Dibromochloromethane	BRL		0.21	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Dichlorodifluoromethane	BRL		0.43	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Ethylbenzene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Freon-113	BRL		0.32	5.0	ug/L	228224	1	08/16/2016 18:19	NP
Isopropylbenzene	BRL		0.16	1.0	ug/L	228224	1	08/16/2016 18:19	NP
m,p-Xylene	BRL		0.26	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Methyl acetate	BRL		0.31	2.0	ug/L	228224	1	08/16/2016 18:19	NP
Methyl tert-butyl ether	BRL		0.22	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Methylcyclohexane	BRL		0.34	2.0	ug/L	228224	1	08/16/2016 18:19	NP

**Qualifiers:**

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- Narr See case narrative

<b>Client:</b> AMEC E&I, Inc.	<b>Client Sample ID:</b> GW-09-09 (30')
<b>Project Name:</b> RBTC Fountain Inn	<b>Collection Date:</b> 8/12/2016 11:00:00 AM
<b>Lab ID:</b> 1608B40-018	<b>Matrix:</b> Groundwater

<b>Analyses</b>	<b>Result</b>	<b>Qual</b>	<b>MDL</b>	<b>Reporting Limit</b>	<b>Units</b>	<b>BatchID</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Analyst</b>
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>					
Methylene chloride	1.0	J	0.31	5.0	ug/L	228224	1	08/16/2016 18:19	NP
o-Xylene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Styrene	BRL		0.13	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Tetrachloroethene	BRL		0.29	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Toluene	BRL		0.20	1.0	ug/L	228224	1	08/16/2016 18:19	NP
trans-1,2-Dichloroethene	BRL		0.22	2.0	ug/L	228224	1	08/16/2016 18:19	NP
trans-1,3-Dichloropropene	BRL		0.13	2.0	ug/L	228224	1	08/16/2016 18:19	NP
Trichloroethene	BRL		0.35	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Trichlorofluoromethane	BRL		0.32	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Vinyl chloride	BRL		0.42	1.0	ug/L	228224	1	08/16/2016 18:19	NP
Surr: 4-Bromofluorobenzene	97.6		0	70-130	%REC	228224	1	08/16/2016 18:19	NP
Surr: Dibromofluoromethane	105		0	70-130	%REC	228224	1	08/16/2016 18:19	NP
Surr: Toluene-d8	101		0	70-130	%REC	228224	1	08/16/2016 18:19	NP

**Qualifiers:**

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- E Estimated value above quantitation range
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- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client AMEL

Work Order Number 1608B40

Checklist completed by Pars Masoudi Signature Date 8/13/16

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)\* Yes  No

Cooler #1 2.40 Cooler #2  Cooler #3  Cooler #4  Cooler #5  Cooler #6

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted?  Checked by

Sample Condition: Good  Other(Explain)

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc

Date: 19-Aug-16

Client: AMEC E&I, Inc.  
 Project Name: RBTC Fountain Inn  
 Workorder: 1608B40

ANALYTICAL QC SUMMARY REPORT

BatchID: 228224

Sample ID: MB-228224	Client ID:	Units: ug/L	Prep Date: 08/16/2016	Run No: 323295
Sample Type: MBLK	Test Code: TCL VOLATILE ORGANICS SW8260B	BatchID: 228224	Analysis Date: 08/16/2016	Seq No: 6993018

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	1.0									
1,1,2,2-Tetrachloroethane	BRL	1.0									
1,1,2-Trichloroethane	BRL	1.0									
1,1-Dichloroethane	BRL	1.0									
1,1-Dichloroethene	BRL	2.0									
1,2,4-Trichlorobenzene	BRL	1.0									
1,2-Dibromo-3-chloropropane	BRL	1.0									
1,2-Dibromoethane	BRL	1.0									
1,2-Dichlorobenzene	BRL	1.0									
1,2-Dichloroethane	BRL	1.0									
1,2-Dichloropropane	BRL	1.0									
1,3-Dichlorobenzene	BRL	1.0									
1,4-Dichlorobenzene	BRL	1.0									
2-Butanone	BRL	10									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	20									
Benzene	BRL	1.0									
Bromodichloromethane	BRL	1.0									
Bromoform	BRL	1.0									
Bromomethane	BRL	1.0									
Carbon disulfide	0.5600	5.0									J
Carbon tetrachloride	BRL	2.0									
Chlorobenzene	BRL	1.0									
Chloroethane	BRL	1.0									
Chloroform	BRL	1.0									
Chloromethane	BRL	1.0									

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	Page 42 of 48



Client: AMEC E&I, Inc.  
 Project Name: RBTC Fountain Inn  
 Workorder: 1608B40

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 228224

Sample ID: MB-228224	Client ID:	Units: ug/L	Prep Date: 08/16/2016	Run No: 323295							
Sample Type: MBLK	Test Code: TCL VOLATILE ORGANICS SW8260B	BatchID: 228224	Analysis Date: 08/16/2016	Seq No: 6993018							
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	1.0									
cis-1,3-Dichloropropene	BRL	1.0									
Cyclohexane	BRL	2.0									
Dibromochloromethane	BRL	1.0									
Dichlorodifluoromethane	BRL	1.0									
Ethylbenzene	BRL	1.0									
Freon-113	BRL	5.0									
Isopropylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
Methyl acetate	BRL	2.0									
Methyl tert-butyl ether	BRL	1.0									
Methylcyclohexane	BRL	2.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	1.0									
Styrene	BRL	1.0									
Tetrachloroethene	BRL	1.0									
Toluene	BRL	1.0									
trans-1,2-Dichloroethene	BRL	2.0									
trans-1,3-Dichloropropene	BRL	2.0									
Trichloroethene	BRL	1.0									
Trichlorofluoromethane	BRL	1.0									
Vinyl chloride	BRL	1.0									
Surr: 4-Bromofluorobenzene	49.49	0	50.00		99.0	70	130				
Surr: Dibromofluoromethane	52.02	0	50.00		104	70	130				
Surr: Toluene-d8	50.90	0	50.00		102	70	130				

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

Client: AMEC E&I, Inc.  
 Project Name: RBTC Fountain Inn  
 Workorder: 1608B40

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 228224

Sample ID: LCS-228224	Client ID:	Units: ug/L	Prep Date: 08/16/2016	Run No: 323295
Sample Type: LCS	TestCode: TCLVOLATILE ORGANICS SW8260B	BatchID: 228224	Analysis Date: 08/16/2016	Seq No: 6993017

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	46.83	1.0	50.00		93.7	70	130				
1,1,2,2-Tetrachloroethane	51.24	1.0	50.00		102	70	130				
1,1,2-Trichloroethane	52.57	1.0	50.00		105	70	130				
1,1-Dichloroethane	50.89	1.0	50.00		102	70	130				
1,1-Dichloroethene	44.01	2.0	50.00		88.0	60	140				
1,2,4-Trichlorobenzene	53.74	1.0	50.00		107	70	130				
1,2-Dibromo-3-chloropropane	53.71	1.0	50.00		107	70	130				
1,2-Dibromoethane	51.55	1.0	50.00		103	70	130				
1,2-Dichlorobenzene	50.24	1.0	50.00		100	70	130				
1,2-Dichloroethane	52.83	1.0	50.00		106	70	130				
1,2-Dichloropropane	50.44	1.0	50.00		101	70	130				
1,3-Dichlorobenzene	48.81	1.0	50.00		97.6	70	130				
1,4-Dichlorobenzene	49.03	1.0	50.00		98.1	70	130				
Benzene	48.84	1.0	50.00		97.7	70	130				
Bromodichloromethane	53.17	1.0	50.00		106	70	130				
Bromoform	62.58	1.0	50.00		125	70	130				
Carbon tetrachloride	48.14	2.0	50.00		96.3	70	130				
Chlorobenzene	49.24	1.0	50.00		98.5	70	130				
Chloroform	50.28	1.0	50.00		101	70	130				
cis-1,2-Dichloroethene	51.61	1.0	50.00		103	70	130				
cis-1,3-Dichloropropene	55.44	1.0	50.00		111	70	130				
Dibromochloromethane	55.53	1.0	50.00		111	70	130				
Ethylbenzene	47.25	1.0	50.00		94.5	70	130				
Isopropylbenzene	36.60	1.0	50.00		73.2	70	130				
m,p-Xylene	93.62	1.0	100.0		93.6	70	130				
Methylene chloride	51.94	5.0	50.00		104	70	130				
o-Xylene	49.07	1.0	50.00		98.1	70	130				

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	Page 44 of 48

Analytical Environmental Services, Inc

Date: 19-Aug-16

Client: AMEC E&I, Inc.  
 Project Name: RBTC Fountain Inn  
 Workorder: 1608B40

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 228224

Sample ID: LCS-228224	Client ID:	Units: ug/L	Prep Date: 08/16/2016	Run No: 323295
SampleType: LCS	TestCode: TCLVOLATILE ORGANICS SW8260B	BatchID: 228224	Analysis Date: 08/16/2016	Seq No: 6993017

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Styrene	49.26	1.0	50.00		98.5	70	130				
Tetrachloroethene	42.82	1.0	50.00		85.6	70	130				
Toluene	48.38	1.0	50.00		96.8	70	130				
trans-1,2-Dichloroethene	49.62	2.0	50.00		99.2	70	130				
trans-1,3-Dichloropropene	54.79	2.0	50.00		110	70	130				
Trichloroethene	45.17	1.0	50.00		90.3	70	130				
Vinyl chloride	44.69	1.0	50.00		89.4	70	130				
Surr: 4-Bromofluorobenzene	49.29	0	50.00		98.6	70	130				
Surr: Dibromofluoromethane	52.68	0	50.00		105	70	130				
Surr: Toluene-d8	51.67	0	50.00		103	70	130				

Sample ID: 1608B40-002AMS	Client ID: GW-09-02 (30')	Units: ug/L	Prep Date: 08/16/2016	Run No: 323295
SampleType: MS	TestCode: TCLVOLATILE ORGANICS SW8260B	BatchID: 228224	Analysis Date: 08/16/2016	Seq No: 6993037

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	58.18	1.0	50.00		116	64.5	140				
1,1,2,2-Tetrachloroethane	50.59	1.0	50.00		101	66.5	128				
1,1,2-Trichloroethane	50.88	1.0	50.00		102	73.9	127				
1,1-Dichloroethane	55.90	1.0	50.00		112	61.6	127				
1,1-Dichloroethene	59.18	2.0	50.00		118	60	150				
1,2,4-Trichlorobenzene	50.80	1.0	50.00		102	60.4	131				
1,2-Dibromo-3-chloropropane	50.67	1.0	50.00		101	50.2	131				
1,2-Dibromoethane	50.93	1.0	50.00		102	74.1	126				
1,2-Dichlorobenzene	49.25	1.0	50.00		98.5	72	123				
1,2-Dichloroethane	51.20	1.0	50.00		102	66.5	133				
1,2-Dichloropropane	51.03	1.0	50.00		102	73	126				
1,3-Dichlorobenzene	47.99	1.0	50.00		96.0	72.5	123				
1,4-Dichlorobenzene	48.75	1.0	50.00		97.5	71.1	121				

Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N 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 E&I, Inc.  
 Project Name: RBTC Fountain Inn  
 Workorder: 1608B40

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 228224

Sample ID: 1608B40-002AMS	Client ID: GW-09-02 (30')	Units: ug/L	Prep Date: 08/16/2016	Run No: 323295							
SampleType: MS	TestCode: TCLVOLATILE ORGANICS SW8260B	BatchID: 228224	Analysis Date: 08/16/2016	Seq No: 6993037							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	52.92	1.0	50.00		106	70.1	132				
Bromodichloromethane	52.19	1.0	50.00		104	62.2	131				
Bromoform	59.18	1.0	50.00		118	50.5	138				
Carbon tetrachloride	61.71	2.0	50.00		123	60	149				
Chlorobenzene	50.88	1.0	50.00		102	70.9	131				
Chloroform	53.64	1.0	50.00		107	67.7	128				
cis-1,2-Dichloroethene	55.78	1.0	50.00		112	68.8	133				
cis-1,3-Dichloropropene	52.83	1.0	50.00		106	53.8	134				
Dibromochloromethane	53.62	1.0	50.00		107	57	135				
Ethylbenzene	52.42	1.0	50.00		105	77.8	129				
Isopropylbenzene	41.25	1.0	50.00		82.5	63	132				
m,p-Xylene	101.7	1.0	100.0		102	75.6	132				
Methylene chloride	54.95	5.0	50.00	1.010	108	60.5	124				
o-Xylene	51.74	1.0	50.00		103	73.3	134				
Styrene	49.35	1.0	50.00		98.7	73.3	133				
Tetrachloroethene	53.82	1.0	50.00	3.030	102	69.6	140				
Toluene	50.97	1.0	50.00		102	70.1	133				
trans-1,2-Dichloroethene	57.57	2.0	50.00		115	63.7	127				
trans-1,3-Dichloropropene	50.78	2.0	50.00		102	56.2	127				
Trichloroethene	50.80	1.0	50.00		102	70	136				
Vinyl chloride	60.32	1.0	50.00		121	56.8	141				
Surr: 4-Bromofluorobenzene	48.89	0	50.00		97.8	70	130				
Surr: Dibromofluoromethane	52.25	0	50.00		104	70	130				
Surr: Toluene-d8	51.16	0	50.00		102	70	130				

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

Client: AMEC E&I, Inc.  
 Project Name: RBTC Fountain Inn  
 Workorder: 1608B40

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 228224

Sample ID: 1608B40-002AMSD	Client ID: GW-09-02 (30')	Units: ug/L	Prep Date: 08/16/2016	Run No: 323295							
Sample Type: MSD	Test Code: TCL VOLATILE ORGANICS SW8260B	BatchID: 228224	Analysis Date: 08/16/2016	Seq No: 6993038							
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	58.16	1.0	50.00		116	64.5	140	58.18	0.034	20	
1,1,2,2-Tetrachloroethane	50.51	1.0	50.00		101	66.5	128	50.59	0.158	20	
1,1,2-Trichloroethane	51.01	1.0	50.00		102	73.9	127	50.88	0.255	20	
1,1-Dichloroethane	55.34	1.0	50.00		111	61.6	127	55.90	1.01	20	
1,1-Dichloroethene	58.86	2.0	50.00		118	60	150	59.18	0.542	17.7	
1,2,4-Trichlorobenzene	51.46	1.0	50.00		103	60.4	131	50.80	1.29	24	
1,2-Dibromo-3-chloropropane	53.65	1.0	50.00		107	50.2	131	50.67	5.71	19.5	
1,2-Dibromoethane	50.89	1.0	50.00		102	74.1	126	50.93	0.079	20	
1,2-Dichlorobenzene	49.11	1.0	50.00		98.2	72	123	49.25	0.285	20	
1,2-Dichloroethane	51.16	1.0	50.00		102	66.5	133	51.20	0.078	20	
1,2-Dichloropropane	51.13	1.0	50.00		102	73	126	51.03	0.196	20	
1,3-Dichlorobenzene	48.10	1.0	50.00		96.2	72.5	123	47.99	0.229	20	
1,4-Dichlorobenzene	48.20	1.0	50.00		96.4	71.1	121	48.75	1.13	20	
Benzene	52.41	1.0	50.00		105	70.1	132	52.92	0.968	20	
Bromodichloromethane	52.48	1.0	50.00		105	62.2	131	52.19	0.554	20	
Bromoform	59.47	1.0	50.00		119	50.5	138	59.18	0.489	17.9	
Carbon tetrachloride	62.07	2.0	50.00		124	60	149	61.71	0.582	20	
Chlorobenzene	50.50	1.0	50.00		101	70.9	131	50.88	0.750	20	
Chloroform	53.30	1.0	50.00		107	67.7	128	53.64	0.636	20	
cis-1,2-Dichloroethene	56.05	1.0	50.00		112	68.8	133	55.78	0.483	20	
cis-1,3-Dichloropropene	53.05	1.0	50.00		106	53.8	134	52.83	0.416	20	
Dibromochloromethane	54.04	1.0	50.00		108	57	135	53.62	0.780	20	
Ethylbenzene	51.65	1.0	50.00		103	77.8	129	52.42	1.48	20	
Isopropylbenzene	41.15	1.0	50.00		82.3	63	132	41.25	0.243	20	
m,p-Xylene	100.6	1.0	100.0		101	75.6	132	101.7	1.05	20	
Methylene chloride	54.42	5.0	50.00	1.010	107	60.5	124	54.95	0.969	17.4	
o-Xylene	50.88	1.0	50.00		102	73.3	134	51.74	1.68	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 E&I, Inc.  
 Project Name: RBTC Fountain Inn  
 Workorder: 1608B40

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 228224

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Styrene	48.39	1.0	50.00		96.8	73.3	133	49.35	1.96	20	
Tetrachloroethene	53.52	1.0	50.00	3.030	101	69.6	140	53.82	0.559	20	
Toluene	51.32	1.0	50.00		103	70.1	133	50.97	0.684	20	
trans-1,2-Dichloroethene	58.39	2.0	50.00		117	63.7	127	57.57	1.41	20	
trans-1,3-Dichloropropene	50.61	2.0	50.00		101	56.2	127	50.78	0.335	20	
Trichloroethene	50.25	1.0	50.00		100	70	136	50.80	1.09	20	
Vinyl chloride	60.14	1.0	50.00		120	56.8	141	60.32	0.299	18.4	
Surr: 4-Bromofluorobenzene	49.64	0	50.00		99.3	70	130	48.89	0	0	
Surr: Dibromofluoromethane	53.03	0	50.00		106	70	130	52.25	0	0	
Surr: Toluene-d8	51.32	0	50.00		103	70	130	51.16	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