

SUMMARY REPORT  
21 BIRCH DRIVE (FORMERLY 111 BIRCH DRIVE)  
LAUREL BAY MILITARY HOUSING AREA  
MARINE CORPS AIR STATION BEAUFORT  
BEAUFORT, SC

Revision: 0  
Prepared for:

Department of the Navy  
Naval Facilities Engineering Command, Mid-Atlantic  
9324 Virginia Avenue  
Norfolk, Virginia 23511-3095

and



Naval Facilities Engineering Command Atlantic  
9324 Virginia Avenue  
Norfolk, Virginia 23511-3095

JUNE 2021

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Prepared by:

**CDM - AECOM**  
Multimedia Joint Venture

CDM - AECOM Multimedia Joint Venture  
10560 Arrowhead Drive, Suite 500  
Fairfax, Virginia 22030

Contract Number: N62470-14-D-9016  
CTO WE52  
JUNE 2021

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### List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CTO	Contract Task Order
COPC	constituents of potential concern
ft	feet
IDIQ	Indefinite Delivery, Indefinite Quantity
IGWA	Initial Groundwater Assessment
JV	Joint Venture
LBMH	Laurel Bay Military Housing
MCAS	Marine Corps Air Station
NAVFAC Mid-Lant	Naval Facilities Engineering Command Mid-Atlantic
NFA	No Further Action
PAH	polynuclear aromatic hydrocarbon
QAPP	Quality Assurance Program Plan
RBSL	risk-based screening level
SCDHEC	South Carolina Department of Health and Environmental Control
Site	LBMH area at MCAS Beaufort, South Carolina
UST	underground storage tank
VISL	vapor intrusion screening level

## 1.0 INTRODUCTION

The CDM - AECOM Multimedia Joint Venture (JV) was contracted by the Naval Facilities Engineering Command, Mid-Atlantic (NAVFAC Mid-Lant) to provide reporting services for the heating oil underground storage tanks (USTs) located in Laurel Bay Military Housing (LBMH) area at the Marine Corps Air Station (MCAS) Beaufort, South Carolina (Site). This work has been awarded under Contract Task Order (CTO) WE52 of the Indefinite Delivery, Indefinite Quantity (IDIQ) Multimedia Environmental Compliance Contract (Contract No. N62470-14-D-9016).

As of January 2014, the LBMH addresses were re-numbered to comply with the E-911 emergency response addressing system; however, in order to remain consistent with historical sampling and reporting for LBMH area, the residences will continue to be referenced with their original address numbers in sample nomenclature and reporting documents.

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 21 Birch Drive (Formerly 111 Birch Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

- Background information;
- Sampling activities and results; and
- A determination of the property status.

### 1.1 Background Information

The LBMH area is located approximately 3.5 miles west of MCAS Beaufort. The area is approximately 970 acres in size and serves as an enlisted and officer family housing area. The area is configured with single family and duplex residential structures, and includes recreation, open space, and community facilities. The community includes approximately 1,300 housing units, including legacy Capehart style homes and newer duplex style homes. The housing area

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is bordered on the west by salt marshes and the Broad River, and to the north, east and south by uplands. Forested areas lie along the northern and northeastern borders.

Capehart style homes within the LBMH area were formerly heated using heating oil stored in USTs at each residence. There were 1,100 Capehart style housing units in the LBMH area. The newer duplex homes within the LBMH area never utilized heating oil tanks. Heating oil has not been used at Laurel Bay since the mid-1980s. As was the accepted practice at the time, USTs were drained, filled with dirt, capped, and left in place when they were removed from service. Residential USTs are not regulated in the State of South Carolina (i.e., there are no federal or state laws governing installation, management, or removal).

In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential USTs and conduct sampling activities to determine if, and to what extent, petroleum constituents may have impacted the surrounding environment. MCAS Beaufort coordinated with SCDHEC to develop removal procedures that were consistent with procedural requirements for regulated USTs. All tank removal activities and follow-on actions are conducted in coordination with SCDHEC. To date, all known USTs have been removed from all residential properties within the LBMH area.

## 1.2 UST Removal and Assessment Process

During the UST removal process, a soil sample was collected from beneath the UST excavations (approximately 4 to 6 feet [ft] below ground surface [bgs]) and analyzed for a predetermined list of constituents of potential concern (COPCs) associated with the petroleum compounds found in home heating oil. These COPCs, derived from the *Quality Assurance Program Plan (QAPP) for the Underground Storage Tank Management Division, Revision 3.1* (SCDHEC, 2016) and the *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, (SCDHEC, 2018), are as follows:

- benzene, toluene, ethylbenzene, and xylenes (BTEX),
- naphthalene, and
- five select polynuclear aromatic hydrocarbon (PAHs): benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and dibenz(a,h)anthracene.

Soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form. In accordance with SCDHEC's *QAPP for the UST Management*

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*Division* (SCDHEC, 2016), the soil screening levels consists of SCDHEC risk-based screening levels (RBSLs). It should be noted that the RBSLs for select PAHs were revised in Revision 2.0 of the QAPP (SCDHEC, 2013) and were revised again in Revision 3.0 (SCDHEC, 2015). The screening levels used for evaluation at each site were those levels that were in effect at the time of reporting and review by SCDHEC.

The results of the soil sampling at each former UST location were used to determine if a potential for groundwater contamination exists (i.e., soil results greater than RBSLs) and subsequently to select properties for follow-up initial groundwater assessment (IGWA) sampling. The results of the IGWA sampling (if necessary) are used to determine the presence or absence of the aforementioned COPCs in groundwater and identify whether former UST locations will require additional delineation of COPCs in groundwater. In order to delineate the extent of impact to groundwater, permanent wells are installed and a sampling program is established for those former UST locations where IGWA sampling has indicated the presence of COPCs in excess of the SCDHEC RBSLs for groundwater. Groundwater analytical results are also compared to the site specific groundwater vapor intrusion screening levels (VISLs) to evaluate the potential for vapor intrusion and the necessity for an investigation associated with this media. A multi-media investigation selection process tree, applicable to the LBMH UST investigations, is presented as Appendix A.

## 2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 21 Birch Drive (Formerly 111 Birch Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 111 Birch Drive* (MCAS Beaufort, 2011). The UST Assessment Report is provided in Appendix B.

### 2.1 UST Removal and Soil Sampling

On August 9, 2011, a single 280 gallon heating oil UST was removed from the front landscaped bed area adjacent to the driveway at 21 Birch Drive (Formerly 111 Birch Drive). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'11" bgs and a single soil sample was collected from that depth. The

sample was collected from the fill port side of the former UST to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of the excavation and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in accordance with applicable South Carolina regulation R.61-92, Part 280 (SCDHEC, 2017) and assessment guidelines.

## 2.2 Soil Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 1. A copy of the laboratory analytical data report is included in the UST Assessment Report presented in Appendix B. The laboratory analytical data report includes the soil results for the additional PAHs that were analyzed, but do not have associated RBSLs.

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 21 Birch Drive (Formerly 111 Birch Drive) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

## 3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 21 Birch Drive (Formerly 111 Birch Drive). This NFA determination was obtained in a letter dated July 1, 2015. SCDHEC's NFA letter is provided in Appendix C.

## 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2011. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 111 Birch Drive, Laurel Bay Military Housing Area*, December 2011.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2013. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 2.0*, April 2013.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2015. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0*, May 2015.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2016. *Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.1*, February 2016.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2017. *R.61-92, Part 280, Underground Storage Tank Control Regulations*, March 2017.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management, 2018. *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service*, March 2018.

## Table

**Table 1**  
**Laboratory Analytical Results - Soil**  
**21 Birch Drive (Formerly 111 Birch Drive)**  
**Laurel Bay Military Housing Area**  
**Marine Corps Air Station Beaufort**  
**Beaufort, South Carolina**

Constituent	SCDHEC RBSLs <sup>(1)</sup>	Results Sample Collected 08/09/11
<b>Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)</b>		
Benzene	0.003	ND
Ethylbenzene	1.15	<b>0.00764</b>
Naphthalene	0.036	<b>0.0344</b>
Toluene	0.627	ND
Xylenes, Total	13.01	<b>0.178</b>
<b>Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)</b>		
Benzo(a)anthracene	0.66	<b>0.360</b>
Benzo(b)fluoranthene	0.66	<b>0.198</b>
Benzo(k)fluoranthene	0.66	<b>0.141</b>
Chrysene	0.66	<b>0.333</b>
Dibenz(a,h)anthracene	0.66	ND

**Notes:**

<sup>(1)</sup> South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 and 3.1 (SCDHEC, May 2015 and SCDHEC, February 2016) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL.

EPA - United States Environmental Protection Agency

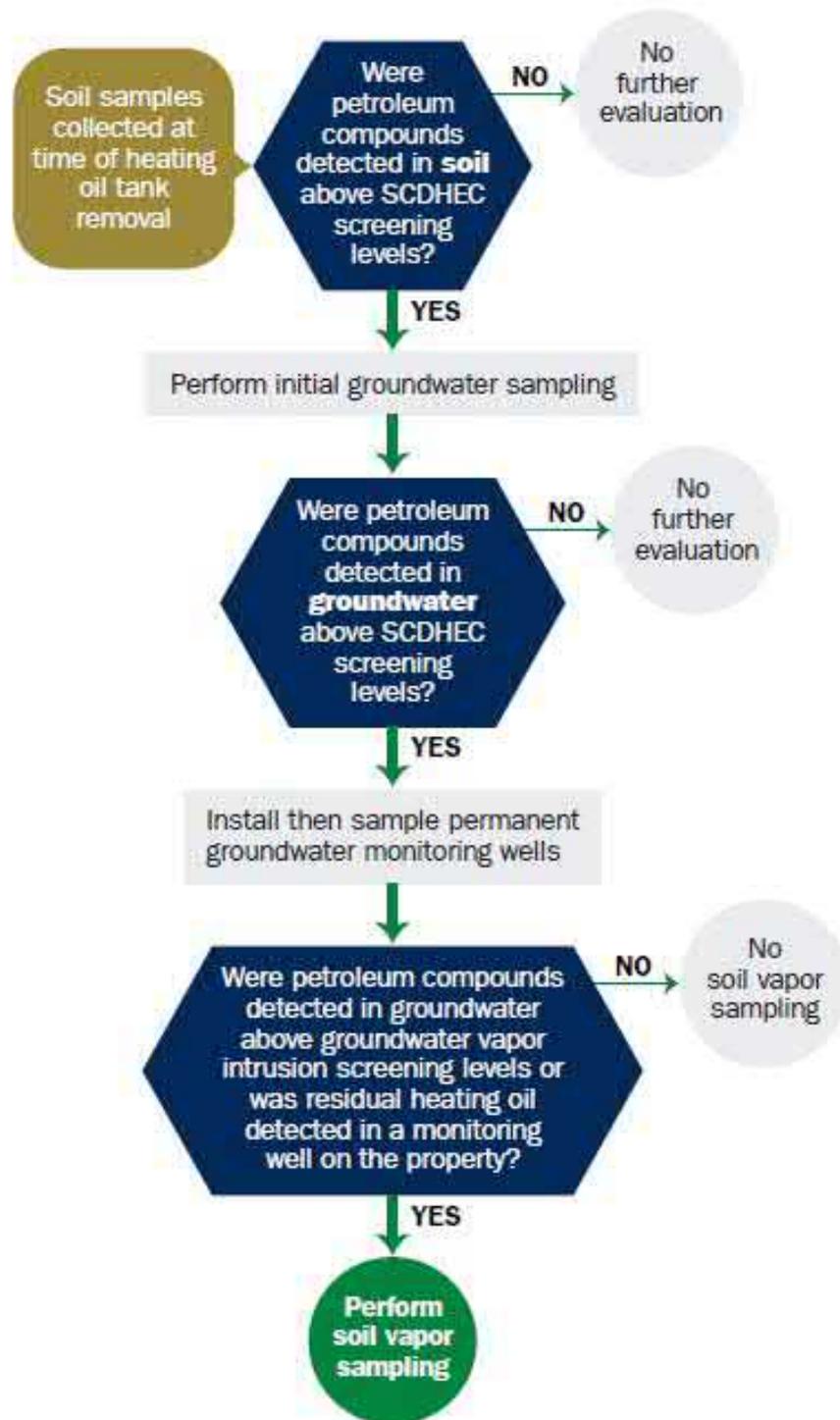
mg/kg - milligram per kilogram

ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

**Appendix A**  
**Multi-Media Selection Process for LBMH**



Appendix A - Multi-Media Selection Process for LBMH

**Appendix B**  
**UST Assessment Report**

South Carolina Department of Health and Environmental Control (SCDHEC)  
**Underground Storage Tank (UST) Assessment Report**

Date Received
State Use Only

Submit Completed Form To:  
UST Program  
SCDHEC  
2600 Bull Street  
Columbia, South Carolina 29201  
Telephone (803) 896-7957

RECEIVED

DEC 08 2011

SCDHEC - Bureau of  
Land & Waste Management

**I. OWNERSHIP OF UST (S)**

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde)		
Owner Name (Corporation, Individual, Public Agency, Other)		
P.O. Box 55001		
Mailing Address		
Beaufort,	South Carolina	29904-5001
City	State	Zip Code
843	228-7317	Craig Ehde
Area Code	Telephone Number	Contact Person

**II. SITE IDENTIFICATION AND LOCATION**

Permit I.D. #	
Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC	
Facility Name or Company Site Identifier	
111 Birch Drive, Laurel Bay Military Housing Area	
Street Address or State Road (as applicable)	
Beaufort,	Beaufort
City	County

### III. INSURANCE INFORMATION

#### Insurance Statement

The petroleum release reported to DHEC on \_\_\_\_\_ at Permit ID Number \_\_\_\_\_ may qualify to receive state monies to pay for appropriate site rehabilitation activities. Before participation is allowed in the State Clean-up fund, written confirmation of the existence or non-existence of an environmental insurance policy is required. **This section must be completed.**

Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? **YES** \_\_\_ **NO** \_\_\_ (check one)

If you answered **YES** to the above question, please complete the following information:

My policy provider is: \_\_\_\_\_  
The policy deductible is: \_\_\_\_\_  
The policy limit is: \_\_\_\_\_

If you have this type of insurance, please include a copy of the policy with this report.

### IV. REQUEST FOR SUPERB FUNDING

I **DO** / **DO NOT** wish to participate in the SUPERB Program. (Circle one.)

### V. CERTIFICATION (To be signed by the UST owner)

**I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.**

\_\_\_\_\_  
Name (Type or print.)

\_\_\_\_\_  
Signature

#### To be completed by Notary Public:

Sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
(Name)

Notary Public for the state of \_\_\_\_\_  
*Please affix State seal if you are commissioned outside South Carolina*

## VI. UST INFORMATION

- A. Product...(ex. Gas, Kerosene).....
- B. Capacity..(ex. 1k, 2k).....
- C. Age.....
- D. Construction Material..(ex. Steel, FRP).....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Date Tanks Removed/Filled.....
- K. Visible Corrosion or Pitting Y/N.....
- L. Visible Holes Y/N.....

111Birch		
Heating oil		
280 gal		
Late 1950s		
Steel		
Mid 80s		
5'11"		
No		
No		
Removed		
8/9/2011		
Yes		
Yes		

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)  
UST 111Birch was removed from the ground, cleaned and recycled.
- 
- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)  
Contaminated water was pumped from the tank and disposed of by MCAS.
- 
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST  
Corrosion, pitting and holes were found throughout the tank.

## VII. PIPING INFORMATION

- A. Construction Material..(ex. Steel, FRP).....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System Pressure or Suction.....
- E. Was Piping Removed from the Ground? Y/N
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....
- I. If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.

111Birch		
Steel & Copper		
N/A		
N/A		
Suction		
No		
Yes		
No		
Late 1950s		

Steel vent piping for all tanks were corroded and pitted. All copper supply and return piping were sound.

## VIII. BRIEF SITE DESCRIPTION AND HISTORY

The USTs at the residences are constructed of single wall steel and formerly contained fuel oil for heating. These USTs were installed in the late 1950s and last used in the mid 1980s.

## IX. SITE CONDITIONS

	Yes	No	Unk
<p>A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate depth and location on the site map.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate location on site map and describe the odor (strong, mild, etc.)</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>C. Was water present in the UST excavation, soil borings, or trenches?</p> <p>If yes, how far below land surface (indicate location and depth)?</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>D. Did contaminated soils remain stockpiled on site after closure?</p> <p>If yes, indicate the stockpile location on the site map.</p> <p>Name of DHEC representative authorizing soil removal:</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>E. Was a petroleum sheen or free product detected on any excavation or boring waters?</p> <p>If yes, indicate location and thickness.</p>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
111 Birch	Excav at fill end	Soil	Sandy-clay	5'11"	8/9/11 1400 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

\* = Depth Below the Surrounding Land Surface



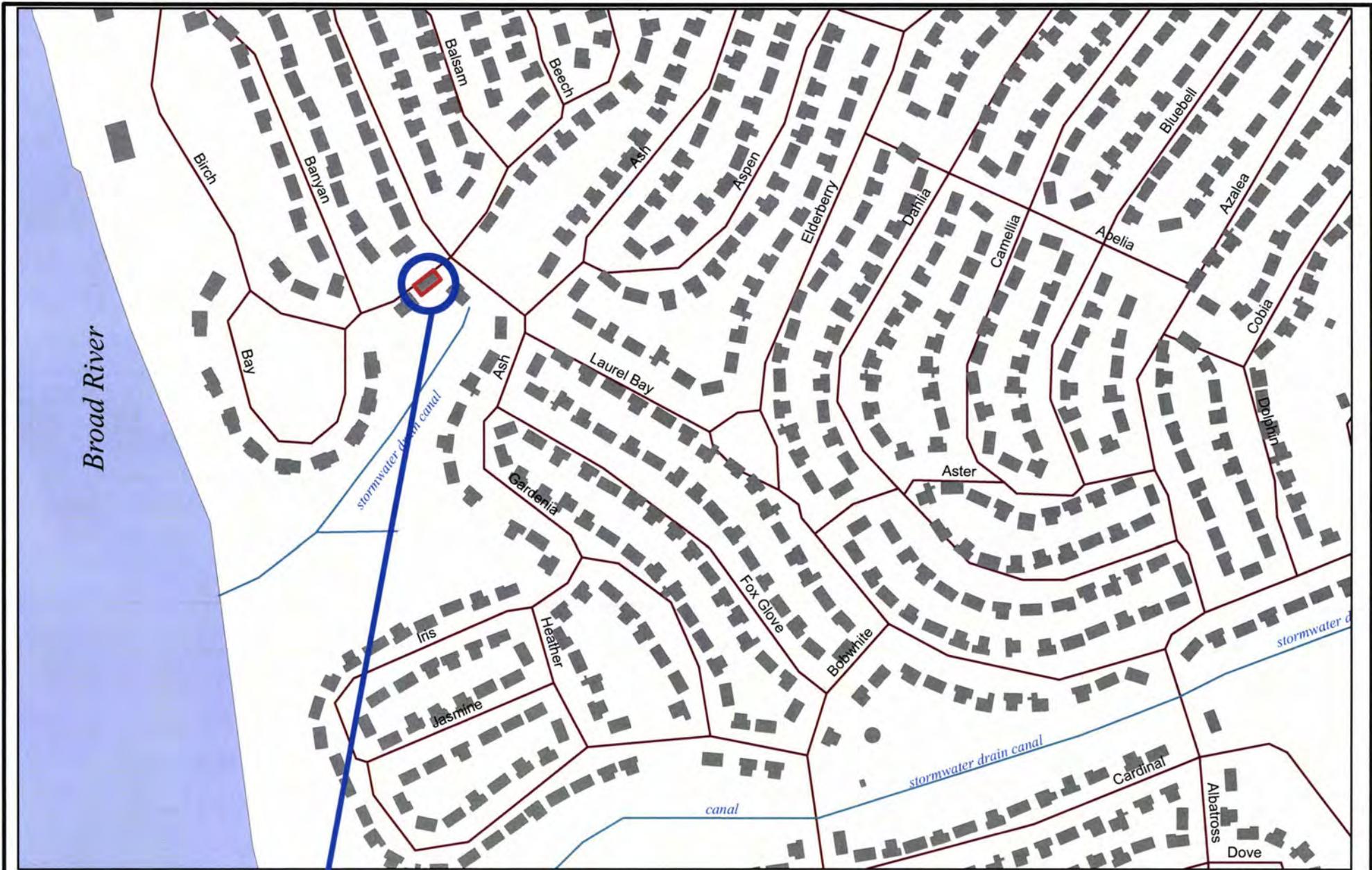
## XII. RECEPTORS

	Yes	No
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?      *Approx 190' to stormwater canal and 860' to Broad R.</p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p>	*X	
<p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p>		X
<p>C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?</p> <p>If yes, indicate type of structure, distance, and direction on site map.</p>		X
<p>D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination?      *Sewer, water, cable, electricity &amp; fiber optic</p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p>	*X	
<p>E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?</p> <p>If yes, indicate the area of contaminated soil on the site map.</p>		X

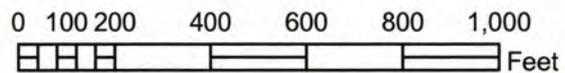
### **XIII. SITE MAP**

**You must supply a scaled site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.**

(Attach Site Map Here)



**111 BIRCH DR.**



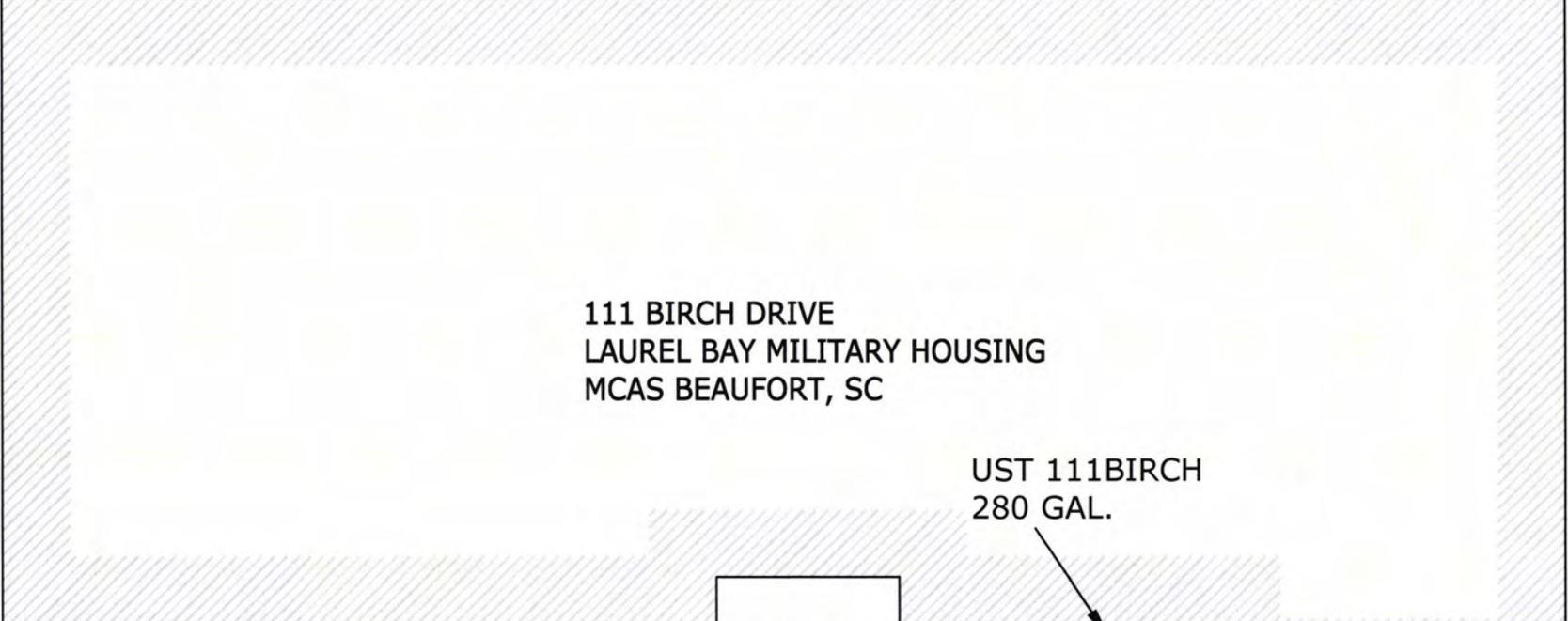
**SBG-EEG, Inc.**  
 398 E. 5th North Street, Suite C  
 Summerville SC 29483-6954  
 Ph. (843) 875-1930  
 Drawn By: L. DiAsio  
 Dwg Date: SEPT 2011

**FIGURE 1: LOCATION MAP**  
**111 BIRCH DRIVE**  
**LAUREL BAY, BEAUFORT SC**



STORMWATER DRAINAGE CANAL  $\approx$  190'

BROAD RIVER  $\approx$  860'



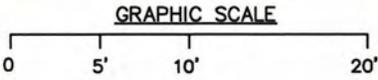
111 BIRCH DRIVE  
LAUREL BAY MILITARY HOUSING  
MCAS BEAUFORT, SC

UST 111BIRCH  
280 GAL.

CONCRETE PORCH

CONCRETE WALK

ASPHALT  
DRIVEWAY

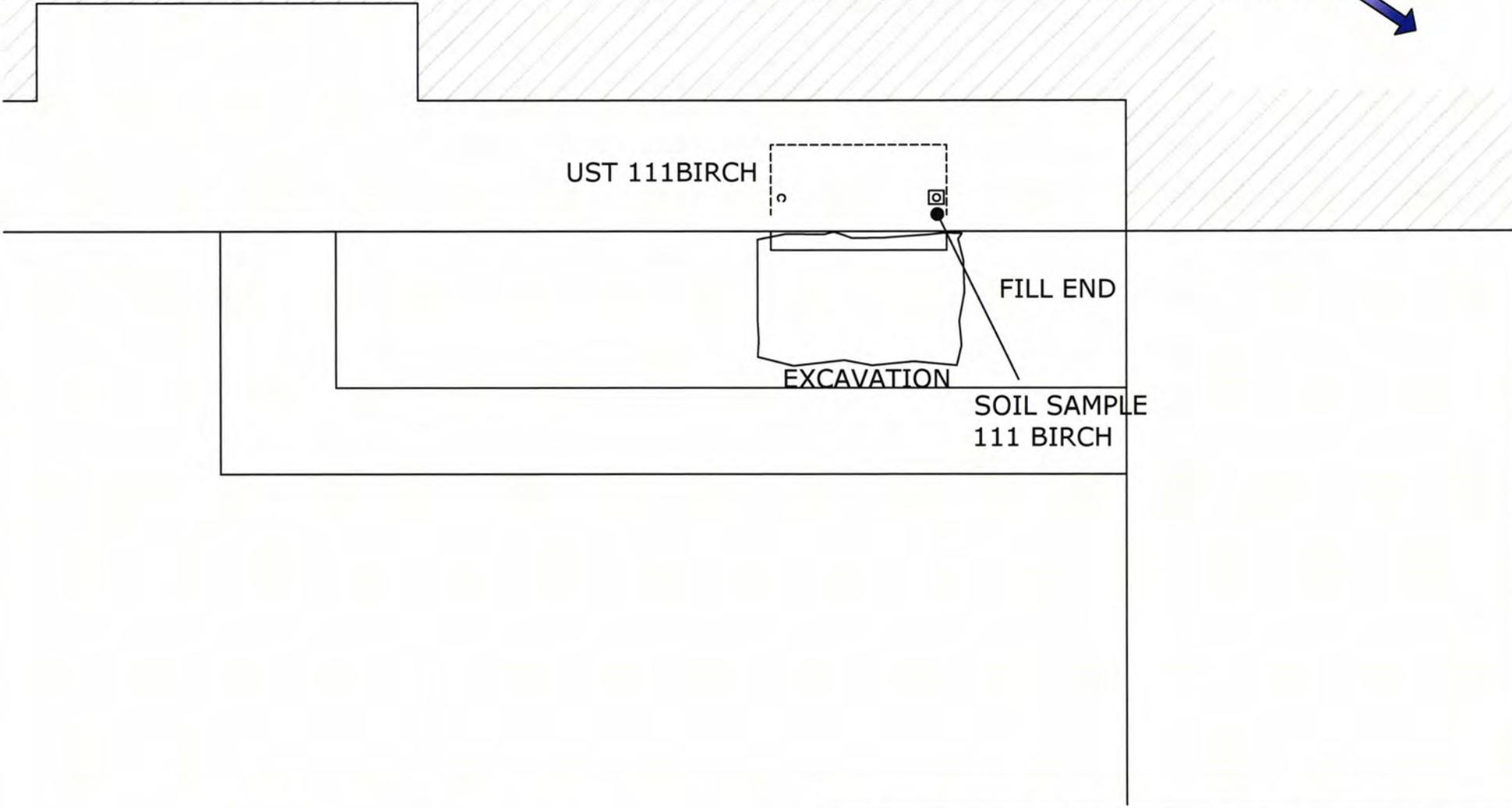


<b><i>SBG-EEG</i></b> 398 E. 5 NORTH ST., SUITE C SUMMERVILLE, SC 29483-6954	<b>FIGURE 2 SITE MAP</b> 111 BIRCH DR., LAUREL BAY MCAS BEAUFORT SC	
	SCALE: GRAPHIC	DWG DATE SEPT 2011



STORMWATER DRAINAGE CANAL  $\approx$  190'

BROAD RIVER  $\approx$  860'

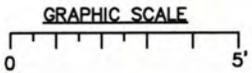


UST 111BIRCH

FILL END

EXCAVATION

SOIL SAMPLE  
111 BIRCH



UST 111BIRCH WAS 23"  
BELOW GRADE

**SBG-EEG**  
398 E. 5 NORTH ST, SUITE C  
SUMMERVILLE, SC  
29483-6954

FIGURE 3 UST SAMPLE LOCATIONS  
111 BIRCH DR., LAUREL BAY  
MCAS BEAUFORT SC

SCALE: GRAPHIC      DWG DATE SEPT 2011



Picture 1: Location of UST 111Birch.



Picture 2: UST 111Birch excavation in progress.

#### XIV. SUMMARY OF ANALYSIS RESULTS

Enter the soil analytical data for each soil boring for all COC in the table below and on the following page.

CoC	UST	111 Birch					
Benzene		ND					
Toluene		ND					
Ethylbenzene		0.00764 mg/kg					
Xylenes		0.178 mg/kg					
Naphthalene		0.0344 mg/kg					
Benzo (a) anthracene		0.360 mg/kg					
Benzo (b) fluoranthene		0.198 mg/kg					
Benzo (k) fluoranthene		0.141 mg/kg					
Chrysene		0.333 mg/kg					
Dibenz (a, h) anthracene		ND					
TPH (EPA 3550)							

CoC							
Benzene							
Toluene							
Ethylbenzene							
Xylenes							
Naphthalene							
Benzo (a) anthracene							
Benzo (b) fluoranthene							
Benzo (k) fluoranthene							
Chrysene							
Dibenz (a, h) anthracene							
TPH (EPA 3550)							

**SUMMARY OF ANALYSIS RESULTS (cont'd)**

Enter the ground water analytical data for each sample for all CoC in the table below. If free product is present, indicate the measured thickness to the nearest 0.01 feet.

CoC	RBSL (µg/l)	W-1	W-2	W -3	W -4
Free Product Thickness	None				
Benzene	5				
Toluene	1,000				
Ethylbenzene	700				
Xylenes	10,000				
Total BTEX	N/A				
MTBE	40				
Naphthalene	25				
Benzo (a) anthracene	10				
Benzo (b) flouranthene	10				
Benzo (k) flouranthene	10				
Chrysene	10				
Dibenz (a, h) anthracene	10				
EDB	.05				
1,2-DCA	5				
Lead	Site specific				

## **XV. ANALYTICAL RESULTS**

**You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.**

(Attach Certified Analytical Results and Chain-of-Custody Here)

(Please see Form #4)

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

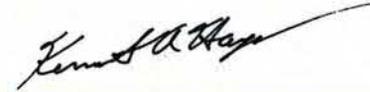
## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Nashville  
2960 Foster Creighton Road  
Nashville, TN 37204  
Tel: 800-765-0980

TestAmerica Job ID: NUH1974  
Client Project/Site: [none]  
Client Project Description: Laurel Bay Housing Project

For:  
EEG - Small Business Group, Inc. (2449)  
10179 Highway 78  
Ladson, SC 29456

Attn: Tom McElwee



Authorized for release by:  
08/29/2011 06:57:15 PM

Ken A. Hayes  
Senior Project Manager  
ken.hayes@testamericainc.com

- 1
- 2
- 3
- 4
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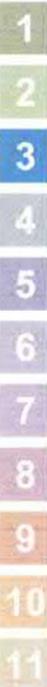
# Sample Summary

Client: EEG - Small Business Group, Inc. (2449)  
Project/Site: [none]

TestAmerica Job ID: NUH1974

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NUH1974-01	332 Ash	Soil	08/08/11 12:30	08/13/11 08:00
NUH1974-02	111 Birch	Soil	08/09/11 14:00	08/13/11 08:00



## Definitions/Glossary

Client: EEG - Small Business Group, Inc. (2449)  
Project/Site: [none]

TestAmerica Job ID: NUH1974



### Qualifiers

#### GCMS Volatiles

Qualifier	Qualifier Description
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.

#### GCMS Semivolatiles

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: EEG - Small Business Group, Inc. (2449)  
Project/Site: [none]

TestAmerica Job ID: NUH1974

**Client Sample ID: 332 Ash**

**Lab Sample ID: NUH1974-01**

Date Collected: 08/08/11 12:30

Matrix: Soil

Date Received: 08/13/11 08:00

Percent Solids: 84.2

### Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00248	0.00137	mg/kg dry	☼	08/08/11 12:30	08/16/11 20:22	1.00
Ethylbenzene	0.00922		0.00248	0.00122	mg/kg dry	☼	08/08/11 12:30	08/16/11 20:22	1.00
Naphthalene	0.0560		0.00621	0.00211	mg/kg dry	☼	08/08/11 12:30	08/16/11 20:22	1.00
Toluene	ND		0.00248	0.00111	mg/kg dry	☼	08/08/11 12:30	08/16/11 20:22	1.00
Xylenes, total	0.00670		0.00621	0.00236	mg/kg dry	☼	08/08/11 12:30	08/16/11 20:22	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	93		67 - 138	08/08/11 12:30	08/16/11 20:22	1.00
Dibromofluoromethane	92		75 - 125	08/08/11 12:30	08/16/11 20:22	1.00
Toluene-d8	119		76 - 129	08/08/11 12:30	08/16/11 20:22	1.00
4-Bromofluorobenzene	287	ZX	67 - 147	08/08/11 12:30	08/16/11 20:22	1.00

### Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.801		0.0791	0.0165	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
Acenaphthylene	0.181		0.0791	0.0236	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
Anthracene	3.29		0.0791	0.0106	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
Benzo (a) pyrene	3.30		0.0791	0.00945	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
Benzo (b) fluoranthene	3.26		0.0791	0.0449	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
Benzo (g,h,i) perylene	0.913		0.0791	0.0106	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
Benzo (k) fluoranthene	3.70		0.0791	0.0437	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
Dibenz (a,h) anthracene	0.407		0.0791	0.0177	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
Fluorene	2.42		0.0791	0.0236	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
Indeno (1,2,3-cd) pyrene	1.02		0.0791	0.0366	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
Naphthalene	ND		0.0791	0.0165	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
1-Methylnaphthalene	0.815		0.0791	0.0142	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00
2-Methylnaphthalene	1.56		0.0791	0.0248	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:26	1.00

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	93		18 - 120	08/15/11 11:05	08/15/11 18:26	1.00
2-Fluorobiphenyl	70		14 - 120	08/15/11 11:05	08/15/11 18:26	1.00
Nitrobenzene-d5	76		17 - 120	08/15/11 11:05	08/15/11 18:26	1.00

### Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D - RE1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo (a) anthracene	8.57		0.791	0.130	mg/kg dry	☼	08/15/11 11:05	08/16/11 17:03	10.0
Chrysene	5.55		0.791	0.366	mg/kg dry	☼	08/15/11 11:05	08/16/11 17:03	10.0
Fluoranthene	26.0		0.791	0.130	mg/kg dry	☼	08/15/11 11:05	08/16/11 17:03	10.0
Phenanthrene	11.5		0.791	0.118	mg/kg dry	☼	08/15/11 11:05	08/16/11 17:03	10.0
Pyrene	18.9		0.791	0.272	mg/kg dry	☼	08/15/11 11:05	08/16/11 17:03	10.0

### Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	84.2		0.500	0.500	%		08/19/11 12:43	08/22/11 09:04	1.00

# Client Sample Results

Client: EEG - Small Business Group, Inc. (2449)  
 Project/Site: [none]

TestAmerica Job ID: NUH1974

**Client Sample ID: 111 Birch**

**Lab Sample ID: NUH1974-02**

Date Collected: 08/09/11 14:00

Matrix: Soil

Date Received: 08/13/11 08:00

Percent Solids: 76.1

**Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00235	0.00129	mg/kg dry	☼	08/09/11 14:00	08/16/11 20:53	1.00
Ethylbenzene	0.00764		0.00235	0.00115	mg/kg dry	☼	08/09/11 14:00	08/16/11 20:53	1.00
Naphthalene	0.0344		0.00589	0.00200	mg/kg dry	☼	08/09/11 14:00	08/16/11 20:53	1.00
Toluene	ND		0.00235	0.00105	mg/kg dry	☼	08/09/11 14:00	08/16/11 20:53	1.00
Xylenes, total	0.178		0.00589	0.00224	mg/kg dry	☼	08/09/11 14:00	08/16/11 20:53	1.00
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4	94		67 - 138				08/09/11 14:00	08/16/11 20:53	1.00
Dibromofluoromethane	89		75 - 125				08/09/11 14:00	08/16/11 20:53	1.00
Toluene-d8	141	ZX	76 - 129				08/09/11 14:00	08/16/11 20:53	1.00
4-Bromofluorobenzene	146		67 - 147				08/09/11 14:00	08/16/11 20:53	1.00

**Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.944		0.0872	0.0182	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Acenaphthylene	0.313		0.0872	0.0260	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Anthracene	0.408		0.0872	0.0117	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Benzo (a) anthracene	0.360		0.0872	0.0143	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Benzo (a) pyrene	0.162		0.0872	0.0104	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Benzo (b) fluoranthene	0.198		0.0872	0.0494	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Benzo (g,h,i) perylene	0.0503	J	0.0872	0.0117	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Benzo (k) fluoranthene	0.141		0.0872	0.0481	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Chrysene	0.333		0.0872	0.0403	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Dibenz (a,h) anthracene	ND		0.0872	0.0195	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Fluoranthene	1.08		0.0872	0.0143	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Fluorene	2.06		0.0872	0.0260	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Indeno (1,2,3-cd) pyrene	0.0577	J	0.0872	0.0403	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Naphthalene	ND		0.0872	0.0182	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Pyrene	1.06		0.0872	0.0299	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
2-Methylnaphthalene	1.85		0.0872	0.0273	mg/kg dry	☼	08/15/11 11:05	08/15/11 18:51	1.00
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	87		18 - 120				08/15/11 11:05	08/15/11 18:51	1.00
2-Fluorobiphenyl	70		14 - 120				08/15/11 11:05	08/15/11 18:51	1.00
Nitrobenzene-d5	70		17 - 120				08/15/11 11:05	08/15/11 18:51	1.00

**Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D - RE1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	4.93		0.436	0.0650	mg/kg dry	☼	08/15/11 11:05	08/16/11 17:29	5.00
1-Methylnaphthalene	4.61		0.436	0.0781	mg/kg dry	☼	08/15/11 11:05	08/16/11 17:29	5.00

**Method: SW-846 - General Chemistry Parameters**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	76.1		0.500	0.500	%		08/19/11 12:43	08/22/11 09:04	1.00



# QC Sample Results

Client: EEG - Small Business Group, Inc. (2449)  
Project/Site: [none]

TestAmerica Job ID: NUH1974

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

**Lab Sample ID: 11H3862-BLK1**  
**Matrix: Soil**  
**Analysis Batch: U014639**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 11H3862\_P**

Analyte	Blank		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.00200	0.00110	mg/kg wet		08/16/11 10:21	08/16/11 12:58	1.00
Ethylbenzene	ND		0.00200	0.000980	mg/kg wet		08/16/11 10:21	08/16/11 12:58	1.00
Naphthalene	ND		0.00500	0.00170	mg/kg wet		08/16/11 10:21	08/16/11 12:58	1.00
Toluene	ND		0.00200	0.000890	mg/kg wet		08/16/11 10:21	08/16/11 12:58	1.00
Xylenes, total	ND		0.00500	0.00190	mg/kg wet		08/16/11 10:21	08/16/11 12:58	1.00

Surrogate	Blank		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
1,2-Dichloroethane-d4	96		67 - 138	08/16/11 10:21	08/16/11 12:58	1.00
Dibromofluoromethane	95		75 - 125	08/16/11 10:21	08/16/11 12:58	1.00
Toluene-d8	107		76 - 129	08/16/11 10:21	08/16/11 12:58	1.00
4-Bromofluorobenzene	111		67 - 147	08/16/11 10:21	08/16/11 12:58	1.00

**Lab Sample ID: 11H3862-BLK2**  
**Matrix: Soil**  
**Analysis Batch: U014639**

**Client Sample ID: Method Blank**  
**Prep Type: Total**  
**Prep Batch: 11H3862\_P**

Analyte	Blank		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.100	0.0550	mg/kg wet		08/16/11 10:21	08/16/11 13:29	50.0
Ethylbenzene	ND		0.100	0.0490	mg/kg wet		08/16/11 10:21	08/16/11 13:29	50.0
Naphthalene	ND		0.250	0.0850	mg/kg wet		08/16/11 10:21	08/16/11 13:29	50.0
Toluene	ND		0.100	0.0445	mg/kg wet		08/16/11 10:21	08/16/11 13:29	50.0
Xylenes, total	ND		0.250	0.0950	mg/kg wet		08/16/11 10:21	08/16/11 13:29	50.0

Surrogate	Blank		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
1,2-Dichloroethane-d4	92		67 - 138	08/16/11 10:21	08/16/11 13:29	50.0
Dibromofluoromethane	92		75 - 125	08/16/11 10:21	08/16/11 13:29	50.0
Toluene-d8	105		76 - 129	08/16/11 10:21	08/16/11 13:29	50.0
4-Bromofluorobenzene	113		67 - 147	08/16/11 10:21	08/16/11 13:29	50.0

**Lab Sample ID: 11H3862-BS1**  
**Matrix: Soil**  
**Analysis Batch: U014639**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total**  
**Prep Batch: 11H3862\_P**

Analyte	Spike Added	LCS		Unit	D	% Rec	Limits
		Result	Qualifier				
Benzene	50.0	53.2		ug/kg		106	78 - 126
Ethylbenzene	50.0	54.3		ug/kg		109	79 - 130
Naphthalene	50.0	47.4		ug/kg		95	72 - 150
Toluene	50.0	51.3		ug/kg		103	76 - 126
Xylenes, total	150	162		ug/kg		108	80 - 130

Surrogate	LCS		Limits
	% Recovery	Qualifier	
1,2-Dichloroethane-d4	92		67 - 138
Dibromofluoromethane	96		75 - 125
Toluene-d8	106		76 - 129
4-Bromofluorobenzene	113		67 - 147

## QC Sample Results

Client: EEG - Small Business Group, Inc. (2449)  
Project/Site: [none]

TestAmerica Job ID: NUH1974



### Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

Lab Sample ID: 11H3862-MS1

Matrix: Soil

Analysis Batch: U014639

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 11H3862\_P

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	% Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Benzene	0.615		1.89	2.89		mg/kg wet		120	42 - 141	
Ethylbenzene	0.0777		1.89	2.36		mg/kg wet		121	21 - 165	
Naphthalene	0.0645		1.89	1.79		mg/kg wet		91	10 - 160	
Toluene	1.20		1.89	3.33		mg/kg wet		113	45 - 145	
Xylenes, total	0.367		5.66	7.19		mg/kg wet		121	31 - 159	

Surrogate	Matrix Spike	Matrix Spike	Limits
	% Recovery	Qualifier	
1,2-Dichloroethane-d4	91		67 - 138
Dibromofluoromethane	98		75 - 125
Toluene-d8	107		76 - 129
4-Bromofluorobenzene	115		67 - 147

Lab Sample ID: 11H3862-MSD1

Matrix: Soil

Analysis Batch: U014639

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 11H3862\_P

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	% Rec	% Rec.	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
Benzene	0.615		1.89	2.86		mg/kg wet		119	42 - 141	0.7	50		
Ethylbenzene	0.0777		1.89	2.37		mg/kg wet		122	21 - 165	0.6	50		
Naphthalene	0.0645		1.89	1.83		mg/kg wet		93	10 - 160	2	50		
Toluene	1.20		1.89	3.41		mg/kg wet		117	45 - 145	2	50		
Xylenes, total	0.367		5.66	7.28		mg/kg wet		122	31 - 159	1	50		

Surrogate	Matrix Spike Dup	Matrix Spike Dup	Limits
	% Recovery	Qualifier	
1,2-Dichloroethane-d4	87		67 - 138
Dibromofluoromethane	92		75 - 125
Toluene-d8	108		76 - 129
4-Bromofluorobenzene	111		67 - 147

### Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

Lab Sample ID: 11H3481-BLK1

Matrix: Soil

Analysis Batch: 11H3481

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 11H3481\_P

Analyte	Blank	Blank	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		0.0670	0.0140	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Acenaphthylene	ND		0.0670	0.0200	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Anthracene	ND		0.0670	0.00900	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Benzo (a) anthracene	ND		0.0670	0.0110	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Benzo (a) pyrene	ND		0.0670	0.00800	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Benzo (b) fluoranthene	ND		0.0670	0.0380	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Benzo (g,h,i) perylene	ND		0.0670	0.00900	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Benzo (k) fluoranthene	ND		0.0670	0.0370	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Chrysene	ND		0.0670	0.0310	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Dibenz (a,h) anthracene	ND		0.0670	0.0150	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Fluoranthene	ND		0.0670	0.0110	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Fluorene	ND		0.0670	0.0200	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670	0.0310	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00

# QC Sample Results

Client: EEG - Small Business Group, Inc. (2449)  
Project/Site: [none]

TestAmerica Job ID: NUH1974

## Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D (Continued)

Lab Sample ID: 11H3481-BLK1							Client Sample ID: Method Blank			
Matrix: Soil							Prep Type: Total			
Analysis Batch: 11H3481							Prep Batch: 11H3481_P			
Analyte	Blank		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Naphthalene	ND		0.0670	0.0140	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00	
Phenanthrene	ND		0.0670	0.0100	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00	
Pyrene	ND		0.0670	0.0230	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00	
1-Methylnaphthalene	ND		0.0670	0.0120	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00	
2-Methylnaphthalene	ND		0.0670	0.0210	mg/kg wet		08/15/11 11:05	08/15/11 16:17	1.00	
Surrogate	Blank		Limits			D	Prepared	Analyzed	Dil Fac	
	% Recovery	Qualifier								
Terphenyl-d14	103		18 - 120				08/15/11 11:05	08/15/11 16:17	1.00	
2-Fluorobiphenyl	83		14 - 120				08/15/11 11:05	08/15/11 16:17	1.00	
Nitrobenzene-d5	90		17 - 120				08/15/11 11:05	08/15/11 16:17	1.00	

Lab Sample ID: 11H3481-BS1							Client Sample ID: Lab Control Sample			
Matrix: Soil							Prep Type: Total			
Analysis Batch: 11H3481							Prep Batch: 11H3481_P			
Analyte			Spike	LCS	LCS	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier					
Acenaphthene			1.67	1.51		mg/kg wet		91	49 - 120	
Acenaphthylene			1.67	1.56		mg/kg wet		94	52 - 120	
Anthracene			1.67	1.63		mg/kg wet		98	58 - 120	
Benzo (a) anthracene			1.67	1.62		mg/kg wet		97	57 - 120	
Benzo (a) pyrene			1.67	1.74		mg/kg wet		105	55 - 120	
Benzo (b) fluoranthene			1.67	1.54		mg/kg wet		92	51 - 123	
Benzo (g,h,i) perylene			1.67	1.65		mg/kg wet		99	49 - 121	
Benzo (k) fluoranthene			1.67	1.44		mg/kg wet		86	42 - 129	
Chrysene			1.67	1.52		mg/kg wet		91	55 - 120	
Dibenz (a,h) anthracene			1.67	1.71		mg/kg wet		103	50 - 123	
Fluoranthene			1.67	1.59		mg/kg wet		95	58 - 120	
Fluorene			1.67	1.53		mg/kg wet		92	54 - 120	
Indeno (1,2,3-cd) pyrene			1.67	1.69		mg/kg wet		101	50 - 122	
Naphthalene			1.67	1.40		mg/kg wet		84	28 - 120	
Phenanthrene			1.67	1.56		mg/kg wet		94	56 - 120	
Pyrene			1.67	1.60		mg/kg wet		96	56 - 120	
1-Methylnaphthalene			1.67	1.05		mg/kg wet		63	36 - 120	
2-Methylnaphthalene			1.67	1.29		mg/kg wet		77	36 - 120	
Surrogate	LCS		Limits					% Rec.	Limits	
	% Recovery	Qualifier								
Terphenyl-d14	102		18 - 120							
2-Fluorobiphenyl	81		14 - 120							
Nitrobenzene-d5	82		17 - 120							

Lab Sample ID: 11H3481-MS1							Client Sample ID: Matrix Spike			
Matrix: Soil							Prep Type: Total			
Analysis Batch: 11H3481							Prep Batch: 11H3481_P			
Analyte	Sample		Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	% Rec.	
	Result	Qualifier	Added	Result	Qualifier					
Acenaphthene	ND		1.64	1.35		mg/kg wet		82	42 - 120	
Acenaphthylene	ND		1.64	1.38		mg/kg wet		84	32 - 120	
Anthracene	ND		1.64	1.46		mg/kg wet		89	10 - 200	
Benzo (a) anthracene	ND		1.64	1.44		mg/kg wet		88	41 - 120	

# QC Sample Results

Client: EEG - Small Business Group, Inc. (2449)  
 Project/Site: [none]

TestAmerica Job ID: NUH1974

## Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D (Continued)

**Lab Sample ID: 11H3481-MS1**

**Matrix: Soil**

**Analysis Batch: 11H3481**

**Client Sample ID: Matrix Spike**

**Prep Type: Total**

**Prep Batch: 11H3481\_P**

Analyte	Sample	Sample	Spike	Matrix Spike	Matrix Spike	Unit	D	% Rec	% Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Benzo (a) pyrene	ND		1.64	1.56		mg/kg wet		95	33 - 121	
Benzo (b) fluoranthene	ND		1.64	1.46		mg/kg wet		89	26 - 137	
Benzo (g,h,i) perylene	ND		1.64	1.53		mg/kg wet		93	21 - 124	
Benzo (k) fluoranthene	ND		1.64	1.47		mg/kg wet		89	14 - 140	
Chrysene	ND		1.64	1.39		mg/kg wet		84	28 - 123	
Dibenz (a,h) anthracene	ND		1.64	1.55		mg/kg wet		94	25 - 127	
Fluoranthene	ND		1.64	1.44		mg/kg wet		88	38 - 120	
Fluorene	ND		1.64	1.36		mg/kg wet		83	41 - 120	
Indeno (1,2,3-cd) pyrene	ND		1.64	1.52		mg/kg wet		92	25 - 123	
Naphthalene	ND		1.64	1.31		mg/kg wet		80	25 - 120	
Phenanthrene	ND		1.64	1.39		mg/kg wet		84	37 - 120	
Pyrene	ND		1.64	1.44		mg/kg wet		87	29 - 125	
1-Methylnaphthalene	ND		1.64	1.01		mg/kg wet		62	19 - 120	
2-Methylnaphthalene	ND		1.64	1.21		mg/kg wet		74	11 - 120	

Surrogate	Matrix Spike % Recovery	Matrix Spike Qualifier	Matrix Spike Limits
Terphenyl-d14	93		18 - 120
2-Fluorobiphenyl	74		14 - 120
Nitrobenzene-d5	76		17 - 120

**Lab Sample ID: 11H3481-MSD1**

**Matrix: Soil**

**Analysis Batch: 11H3481**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total**

**Prep Batch: 11H3481\_P**

Analyte	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike Dup	Unit	D	% Rec	% Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Acenaphthene	ND		1.64	1.46		mg/kg wet		89	42 - 120	8	40	
Acenaphthylene	ND		1.64	1.50		mg/kg wet		91	32 - 120	9	30	
Anthracene	ND		1.64	1.55		mg/kg wet		94	10 - 200	6	50	
Benzo (a) anthracene	ND		1.64	1.56		mg/kg wet		95	41 - 120	8	30	
Benzo (a) pyrene	ND		1.64	1.61		mg/kg wet		98	33 - 121	3	33	
Benzo (b) fluoranthene	ND		1.64	1.50		mg/kg wet		91	26 - 137	3	42	
Benzo (g,h,i) perylene	ND		1.64	1.62		mg/kg wet		99	21 - 124	6	32	
Benzo (k) fluoranthene	ND		1.64	1.37		mg/kg wet		83	14 - 140	7	39	
Chrysene	ND		1.64	1.49		mg/kg wet		91	28 - 123	7	34	
Dibenz (a,h) anthracene	ND		1.64	1.68		mg/kg wet		102	25 - 127	8	31	
Fluoranthene	ND		1.64	1.54		mg/kg wet		94	38 - 120	7	35	
Fluorene	ND		1.64	1.49		mg/kg wet		91	41 - 120	9	37	
Indeno (1,2,3-cd) pyrene	ND		1.64	1.64		mg/kg wet		100	25 - 123	7	32	
Naphthalene	ND		1.64	1.38		mg/kg wet		84	25 - 120	5	42	
Phenanthrene	ND		1.64	1.50		mg/kg wet		91	37 - 120	8	32	
Pyrene	ND		1.64	1.57		mg/kg wet		96	29 - 125	9	40	
1-Methylnaphthalene	ND		1.64	1.03		mg/kg wet		63	19 - 120	2	45	
2-Methylnaphthalene	ND		1.64	1.22		mg/kg wet		74	11 - 120	0.5	50	

Surrogate	Matrix Spike Dup % Recovery	Matrix Spike Dup Qualifier	Matrix Spike Dup Limits
Terphenyl-d14	101		18 - 120
2-Fluorobiphenyl	78		14 - 120
Nitrobenzene-d5	77		17 - 120



# QC Sample Results

Client: EEG - Small Business Group, Inc. (2449)  
Project/Site: [none]

TestAmerica Job ID: NUH1974

## Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 11H4500-DUP1

Matrix: Soil

Analysis Batch: 11H4500

Client Sample ID: Duplicate

Prep Type: Total

Prep Batch: 11H4500\_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
% Dry Solids	89.5		84.9		%		5	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

## QC Association Summary

Client: EEG - Small Business Group, Inc. (2449)  
Project/Site: [none]

TestAmerica Job ID: NUH1974



### GCMS Volatiles

#### Analysis Batch: U014639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3862-BLK1	Method Blank	Total	Soil	SW846 8260B	11H3862_P
11H3862-BLK2	Method Blank	Total	Soil	SW846 8260B	11H3862_P
11H3862-BS1	Lab Control Sample	Total	Soil	SW846 8260B	11H3862_P
11H3862-MS1	Matrix Spike	Total	Soil	SW846 8260B	11H3862_P
11H3862-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	11H3862_P
NUH1974-01	332 Ash	Total	Soil	SW846 8260B	11H3862_P
NUH1974-02	111 Birch	Total	Soil	SW846 8260B	11H3862_P

#### Prep Batch: 11H3862\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3862-BLK1	Method Blank	Total	Soil	EPA 5035	
11H3862-BLK2	Method Blank	Total	Soil	EPA 5035	
11H3862-BS1	Lab Control Sample	Total	Soil	EPA 5035	
11H3862-MS1	Matrix Spike	Total	Soil	EPA 5035	
11H3862-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	
NUH1974-01	332 Ash	Total	Soil	EPA 5035	
NUH1974-02	111 Birch	Total	Soil	EPA 5035	

### GCMS Semivolatiles

#### Analysis Batch: 11H3481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3481-BLK1	Method Blank	Total	Soil	SW846 8270D	11H3481_P
11H3481-BS1	Lab Control Sample	Total	Soil	SW846 8270D	11H3481_P
11H3481-MS1	Matrix Spike	Total	Soil	SW846 8270D	11H3481_P
11H3481-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8270D	11H3481_P
NUH1974-01	332 Ash	Total	Soil	SW846 8270D	11H3481_P
NUH1974-01 - RE1	332 Ash	Total	Soil	SW846 8270D	11H3481_P
NUH1974-02	111 Birch	Total	Soil	SW846 8270D	11H3481_P
NUH1974-02 - RE1	111 Birch	Total	Soil	SW846 8270D	11H3481_P

#### Prep Batch: 11H3481\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H3481-BLK1	Method Blank	Total	Soil	EPA 3550C	
11H3481-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
11H3481-MS1	Matrix Spike	Total	Soil	EPA 3550C	
11H3481-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 3550C	
NUH1974-01	332 Ash	Total	Soil	EPA 3550C	
NUH1974-01 - RE1	332 Ash	Total	Soil	EPA 3550C	
NUH1974-02	111 Birch	Total	Soil	EPA 3550C	
NUH1974-02 - RE1	111 Birch	Total	Soil	EPA 3550C	

### Extractions

#### Analysis Batch: 11H4500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H4500-DUP1	Duplicate	Total	Soil	SW-846	11H4500_P
NUH1974-01	332 Ash	Total	Soil	SW-846	11H4500_P
NUH1974-02	111 Birch	Total	Soil	SW-846	11H4500_P

## QC Association Summary

Client: EEG - Small Business Group, Inc. (2449)  
Project/Site: [none]

TestAmerica Job ID: NUH1974

### Extractions (Continued)

#### Prep Batch: 11H4500\_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
11H4500-DUP1	Duplicate	Total	Soil	% Solids	
NUH1974-01	332 Ash	Total	Soil	% Solids	
NUH1974-02	111 Birch	Total	Soil	% Solids	



# Lab Chronicle

Client: EEG - Small Business Group, Inc. (2449)  
 Project/Site: [none]

TestAmerica Job ID: NUH1974

**Client Sample ID: 332 Ash**

**Lab Sample ID: NUH1974-01**

**Date Collected: 08/08/11 12:30**

**Matrix: Soil**

**Date Received: 08/13/11 08:00**

**Percent Solids: 84.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		1.05	11H3862_P	08/08/11 12:30	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014639	08/16/11 20:22	KKK H	TAL NSH
Total	Prep	EPA 3550C		0.994	11H3481_P	08/15/11 11:05	CAG	TAL NSH
Total	Analysis	SW846 8270D		1.00	11H3481	08/15/11 18:26	BES	TAL NSH
Total	Prep	EPA 3550C	RE1	0.994	11H3481_P	08/15/11 11:05	CAG	TAL NSH
Total	Analysis	SW846 8270D	RE1	10.0	11H3481	08/16/11 17:03	BES	TAL NSH
Total	Prep	% Solids		1.00	11H4500_P	08/19/11 12:43	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H4500	08/22/11 09:04	RRS	TAL NSH

**Client Sample ID: 111 Birch**

**Lab Sample ID: NUH1974-02**

**Date Collected: 08/09/11 14:00**

**Matrix: Soil**

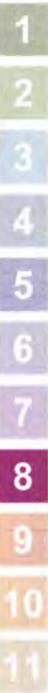
**Date Received: 08/13/11 08:00**

**Percent Solids: 76.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.896	11H3862_P	08/09/11 14:00	AAN	TAL NSH
Total	Analysis	SW846 8260B		1.00	U014639	08/16/11 20:53	KKK H	TAL NSH
Total	Prep	EPA 3550C		0.990	11H3481_P	08/15/11 11:05	CAG	TAL NSH
Total	Analysis	SW846 8270D		1.00	11H3481	08/15/11 18:51	BES	TAL NSH
Total	Prep	EPA 3550C	RE1	0.990	11H3481_P	08/15/11 11:05	CAG	TAL NSH
Total	Analysis	SW846 8270D	RE1	5.00	11H3481	08/16/11 17:29	BES	TAL NSH
Total	Prep	% Solids		1.00	11H4500_P	08/19/11 12:43	RRS	TAL NSH
Total	Analysis	SW-846		1.00	11H4500	08/22/11 09:04	RRS	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980



# Method Summary

Client: EEG - Small Business Group, Inc. (2449)  
Project/Site: [none]

TestAmerica Job ID: NUH1974

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Method	Method Description	Protocol	Laboratory
SW-846	General Chemistry Parameters		TAL NSH
SW846 8260B	Volatile Organic Compounds by EPA Method 8260B		TAL NSH
SW846 8270D	Polyaromatic Hydrocarbons by EPA 8270D		TAL NSH

**Protocol References:**

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980



# Certification Summary

Client: EEG - Small Business Group, Inc. (2449)  
 Project/Site: [none]

TestAmerica Job ID: NUH1974

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	A2LA	WY UST		453.07
TestAmerica Nashville	AIHA	IHLAP		100790
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska	Alaska UST	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas	State Program	6	88-0737
TestAmerica Nashville	CALA	CALA		3744
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Colorado	State Program	8	N/A
TestAmerica Nashville	Connecticut	State Program	1	PH-0220
TestAmerica Nashville	Florida	NELAC	4	E87358
TestAmerica Nashville	Illinois	NELAC	5	200010
TestAmerica Nashville	Iowa	State Program	7	131
TestAmerica Nashville	Kansas	NELAC	7	E-10229
TestAmerica Nashville	Kentucky	Kentucky UST	4	19
TestAmerica Nashville	Kentucky	State Program	4	90038
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA100011
TestAmerica Nashville	Maryland	State Program	3	316
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Minnesota	NELAC	5	047-999-345
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana	MT DEQ UST	8	NA
TestAmerica Nashville	Nevada	State Program	9	TN00032
TestAmerica Nashville	New Hampshire	NELAC	1	2963
TestAmerica Nashville	New Jersey	NELAC	2	TN965
TestAmerica Nashville	New York	NELAC	2	11342
TestAmerica Nashville	North Carolina	North Carolina DENR	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio	OVAP	5	CL0033
TestAmerica Nashville	Oklahoma	State Program	6	9412
TestAmerica Nashville	Oregon	NELAC	10	TN200001
TestAmerica Nashville	Pennsylvania	NELAC	3	68-00585
TestAmerica Nashville	Rhode Island	State Program	1	LAO00268
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	South Carolina	State Program	4	84009
TestAmerica Nashville	Tennessee	State Program	4	2008
TestAmerica Nashville	Texas	NELAC	6	T104704077-09-TX
TestAmerica Nashville	USDA	USDA		S-48469
TestAmerica Nashville	Utah	NELAC	8	TAN
TestAmerica Nashville	Virginia	NELAC Secondary AB	3	460152
TestAmerica Nashville	Virginia	State Program	3	00323
TestAmerica Nashville	Washington	State Program	10	C789
TestAmerica Nashville	West Virginia	West Virginia DEP	3	219

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.





ATTACHMENT A

# UST Certificate of Disposal

## CONTRACTOR

Small Business Group, Inc.  
10179 Highway 78  
Ladson, SC 29456

TEL (843) 879-0403  
FAX (843) 879-0401

## TANK ID & LOCATION

UST 111Birch, 111 Birch Drive, Laurel Bay Housing Area, MCAS Beaufort, S.C.

## DISPOSAL LOCATION

Coastal Auto Salvage Co., Inc.  
130 Laurel Bay Road  
Beaufort, S.C. 29906

### TYPE OF TANK

Steel

### SIZE (GAL)

280

## CLEANING/DISPOSAL METHOD

The tank and piping were unearthed, cut open, cleaned with a pressure washer, cut into sections, and recycled.

## DISPOSAL CERTIFICATION

I certify that the above tank, piping and equipment has been properly cleaned and disposed of.

T. L. White, 9/9/11  
(Name) (Date)

**Appendix C**  
**Regulatory Correspondence**



Catherine E. Heigel, Director

*Promoting and protecting the health of the public and the environment*

July 1, 2015

Commanding Officer  
Attention: NREAO Mr. William A. Drawdy  
United State Marine Corps Air Station  
Post Office Box 55001  
Beaufort, SC 29904-5001

RE: No Further Action  
Laurel Bay Underground Storage Tank Assessment Reports for:  
*See attached sheet*

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the referenced Underground Storage Tanks (USTs) Assessment Reports for the addresses listed above. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina Pollution Control Act (S.C. Code Ann. §48-1-10 et seq., as amended).

The Department has reviewed the referenced assessment reports and agrees there is no indication of soil or groundwater contamination on these properties, and therefore no further investigation is required at this time.

Please note that the Department's decision is based on information provided by the Marine Corps Air Station (MCAS) to date. Any information found to be contradictory to this decision may require additional action. Furthermore, the Department retains the right to request further investigation if deemed necessary.

If you have any questions, please contact me at [kriegkm@dhec.sc.gov](mailto:kriegkm@dhec.sc.gov) or 803-898-0255.

Sincerely,

Kent Krieg  
Department of Defense Corrective Action Section  
Bureau of Land and Waste Management  
South Carolina Department of Health and Environmental Control

Cc: Russell Berry (via email)  
Craig Ehde (via email)  
Bryan Beck (via email)



Catherine E. Heigel, Director

*Promoting and protecting the health of the public and the environment*

**Attachment to:** Krieg to Drawdy  
**Subject:** NFA  
**Dated** 7/1/2015

**Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks)**

111 Birch	363 Aspen
123 Banyan	364 Aspen
131 Banyan	366 Aspen
134 Banyan	369 Aspen
145 Laurel Bay	373 Aspen
150 Laurel Bay	381 Aspen
153 Laurel Bay	401 Elderberry
154 Laurel Bay	402 Elderberry
155 Laurel Bay	404 Elderberry
200 Balsam	410 Elderberry
202 Balsam	420 Elderberry
203 Balsam	424 Elderberry
208 Balsam	435 Elderberry Tank 3
210 Balsam	452 Elderberry
211 Balsam	460 Elderberry
220 Cypress	465 Dogwood
222 Cypress	477 Laurel Bay
223 Cypress	487 Laurel Bay
252 Beech Tank 2	513 Laurel Bay
271 Beech Tank 1	519 Laurel Bay
271 Beech Tank 2	524 Laurel Bay
284 Birch Tank 1	535 Laurel Bay
284 Birch Tank 2	553 Dahlia
308 Ash	590 Aster
311 Ash	591 Aster
312 Ash	610 Dahlia
317 Ash	612 Dahlia
318 Ash	628 Dahlia
337 Ash	636 Dahlia
351 Ash Tank 1	637 Dahlia Tank 1
351 Ash Tank 2	637 Dahlia Tank 2
355 Ash Tank 1	641 Dahlia
355 Ash Tank 2	642 Dahlia Tank 1
360 Aspen	642 Dahlia Tank 2

**Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.**

655 Camellia	920 Albacore
662 Camellia	922 Barracuda Tank 1
683 Camellia	922 Barracuda Tank 2
684 Camellia	924 Albacore
689 Abelia	925 Albacore
694 Abelia	926 Albacore
695 Abelia	930 Albacore
741 Blue Bell	931 Albacore
742 Blue Bell	933 Albacore
755 Althea	936 Albacore
757 Althea	938 Albacore
776 Laurel Bay	939 Albacore
777 Azalea	940 Albacore
779 Laurel Bay	1010 Foxglove
781 Laurel Bay	1066 Gardenia
802 Azalea	1068 Gardenia
816 Azalea	1071 Heather Tank 2
822 Azalea	1100 Iris Tank 2
823 Azalea	1128 Iris
825 Azalea	1178 Bobwhite
828 Azalea	1204 Cardinal
837 Azalea	1208 Cardinal
851 Dolphin	1209 Cardinal
856 Dolphin	1210 Cardinal
857 Dolphin	1215 Cardinal
861 Dolphin	1216 Cardinal
864 Dolphin	1217 Cardinal Tank 1
868 Dolphin	1217 Cardinal Tank 2
872 Dolphin	1233 Dove
879 Cobia	1244 Dove
886 Cobia	1250 Dove
888 Cobia	1252 Dove
889 Cobia	1254 Dove
901 Barracuda	1256 Dove
902 Barracuda	1258 Dove
903 Barracuda	1263 Dove
904 Barracuda	1269 Dove
909 Barracuda	1276 Dove
910 Barracuda	1283 Dove
914 Barracuda	1285 Dove
915 Barracuda	1288 Eagle

**Laurel Bay Underground Storage Tank Assessment Reports for: (153 addresses/161 tanks) cont.**

1296 Eagle	1330 Albatross
1307 Eagle	1331 Albatross
1321 Albatross	1333 Albatross
1322 Albatross	1334 Albatross
1327 Albatross	1335 Albatross
1328 Albatross	