SUMMARY REPORT
201 ASH STREET (FORMERLY 322 ASH STREET)
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
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 201 Ash Street (Formerly 322 Ash Street). 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

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*

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 201 Ash Street (Formerly 322 Ash Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 322 Ash Street* (MCAS Beaufort, 2012). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

2.1 UST Removal and Soil Sampling

In March 2012, two 280 gallon heating oil USTs were removed at 201 Ash Street (Formerly 322 Ash Street). Tank 1 was removed on March 20, 2012 from underneath the rear concrete patio. Tank 2 was removed on March 21, 2012 from underneath the edge of the rear concrete patio and the rear grassed area. The former UST locations are indicated in Figures 2 and 3 of the

UST Assessment Report (Appendix B). The USTs were removed, cleaned, and shipped offsite for recycling. 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 depths to the bases of the USTs were 6'0" (Tank 1) and 4'0" (Tank 2) bgs and a single soil sample was collected for each at that depth. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of each 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 locations (Tanks 1 and 2) 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 the former UST locations (Tanks 1 and 2) at 201 Ash Street (Formerly 322 Ash Street) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In letters dated May 15, 2014 (Tank 2) and March 3, 2015 (Tank 1), SCDHEC requested IGWAs to be conducted at the former UST locations (Tanks 1 and 2) at 201 Ash Street (Formerly 322 Ash Street) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letters are provided in Appendix D.

2.3 Groundwater Sampling

On May 28, 2015, a temporary monitoring well was installed at 201 Ash Street (Formerly 322 Ash Street), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil USTs (i.e., in between Tanks 1

and 2 due to small spacing). The former UST locations are indicated in Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

2.4 Groundwater Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 2. A copy of the laboratory analytical data report is included in Appendix C.

The groundwater results collected from 201 Ash Street (Formerly 322 Ash Street) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated that the groundwater was not impacted by COPCs associated with the former USTs at concentrations that present a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 201 Ash Street (Formerly 322 Ash Street). This NFA determination was obtained in a letter dated February 22, 2016. SCDHEC's NFA letter is provided in Appendix D.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2012. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 322 Ash Street, Laurel Bay Military Housing Area*, August 2012.

Resolution Consultants, 2015. *Initial Groundwater Investigation Report – May and June 2015 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, October 2015.

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.

South Carolina Department of Health and Environmental Control Bureau of Water, 2016. *R.61-71, Well Standards*, June 2016.

Tables

Table 1
Laboratory Analytical Results - Soil
201 Ash Street (Formerly 322 Ash Street)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Results Samples Collected 03/20/12 and 03/21/12	
		322 Ash-1 03/20/12	322 Ash-2 03/21/12
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)			
Benzene	0.003	ND	ND
Ethylbenzene	1.15	ND	ND
Naphthalene	0.036	ND	ND
Toluene	0.627	ND	ND
Xylenes, Total	13.01	ND	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)			
Benzo(a)anthracene	0.66	**1.08**	ND
Benzo(b)fluoranthene	0.66	**1.01**	ND
Benzo(k)fluoranthene	0.66	**0.642**	ND
Chrysene	0.66	**1.27**	ND
Dibenz(a,h)anthracene	0.66	ND	ND

Notes:

[1] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 2.0 (SCDHEC, April 2013).

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 - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Table 2
Laboratory Analytical Results - Groundwater
201 Ash Street (Formerly 322 Ash Street)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Site-Specific Groundwater VISLs (µg/L)[2]	Results Sample Collected 05/28/15
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	**3.3**
Naphthalene	25	29.33	**9.9**
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	**7.5**
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)			
Benzo(a)anthracene	10	NA	**0.037**
Benzo(b)fluoranthene	10	NA	**0.021**
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	**0.032**
Dibenz(a,h)anthracene	10	NA	ND

Notes:

[1] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.1 (SCDHEC, February 2016).

[2] Site-specific groundwater VISLs were calculated using the EPA JE Model Spreadsheets (Version 3.1, February 2004) and conservative modeling inputs representative of a small single-story house with an 8 foot ceiling. Site-specific groundwater VISLs were developed based on a target risk level of $1x10^{-6}$, a target hazard quotient of 1 (per target organ), and a default residential exposure scenario, assuming exposure for 24 hours/day, 350 days/year, for 26 years. Modeling was performed for a range of depths to groundwater for application as appropriate in different areas of the Laurel Bay Military Housing Area. The most conservative levels are presented for comparison. Refer to Appendix H of the Uniform Federal Policy Sampling Analysis and Sampling Plan for Vapor Media, Revision 4 (Resolution Consultants, April 2017) for additional information.

Bold font indicates the analyte was detected.

Bold font and shading indicates the concentration exceeds the SCDHEC RBSL and/or the Site-Specific Groundwater VISL.

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - Not Applicable

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

RBSL - Risk-Based Screening Level

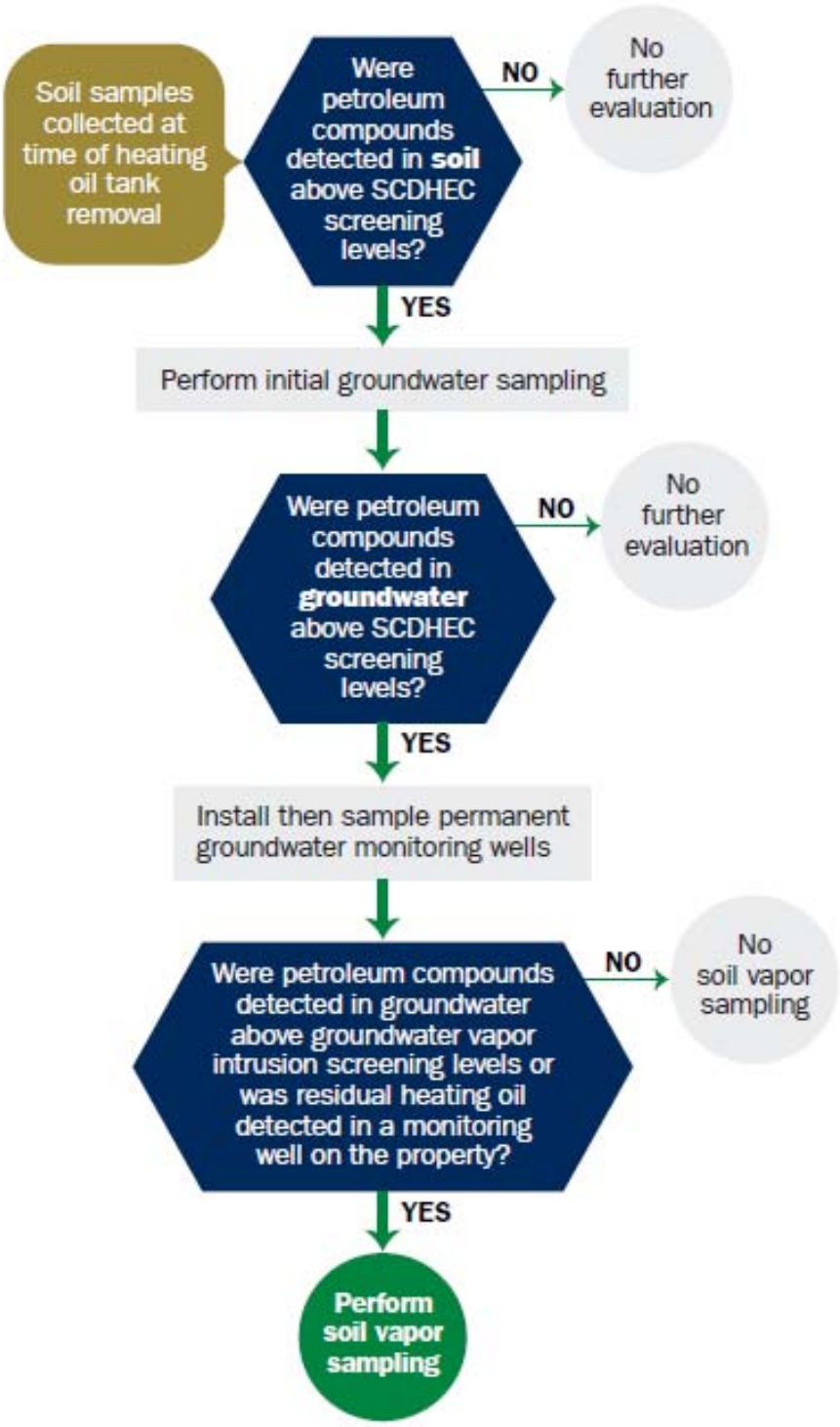
SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

CDM - AECOM
Multimedia Joint Venture

rcvd 8/15/12

Attachment 1

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

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

322 Ash Street, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)

Beaufort,	Beaufort
City	County

Attachment 2

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).....	322Ash-1	322Ash-2
B.	Capacity..(ex. 1k, 2k).....	Heating oil	Heating oil
C.	Age.....	280 gal	280 gal
D.	Construction Material..(ex. Steel, FRP).....	Late 1950s	Late 1950s
E.	Month/Year of Last Use.....	Steel	Steel
F.	Depth (ft.) To Base of Tank.....	Mid 80s	Mid 80s
G.	Spill Prevention Equipment Y/N.....	6'	4'
H.	Overfill Prevention Equipment Y/N.....	No	No
I.	Method of Closure Removed/Filled.....	No	No
J.	Date Tanks Removed/Filled.....	Removed	Removed
K.	Visible Corrosion or Pitting Y/N.....	3/20/2012	3/21/2012
L.	Visible Holes Y/N.....	Yes	Yes
		Yes	Yes

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)

UST 322Ash-1 was removed from the ground, cleaned and recycled.

UST 322Ash-2 was removed from the ground and disposed at a Subtitle "D" landfill. See Attachment "A".

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)

Contaminated water was pumped from UST 322Ash-1 and disposed by MCAS.

UST 322Ash-2 was previously filled with sand by others.

O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

Corrosion, pitting and holes were found in both tanks.

VII. PIPING INFORMATION

322Ash-1	322Ash-2	
Steel & Copper	Steel & Copper	
N/A	N/A	
N/A	N/A	
Suction	Suction	
No	No	
Yes	Yes	
No	No	
Late 1950s	Late 1950s	

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.

Steel vent piping for both 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
A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? If yes, indicate depth and location on the site map.		X	
B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.)		X	
C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)?		X	
D. Did contaminated soils remain stockpiled on site after closure? If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal:		X	
E. Was a petroleum sheen or free product detected on any excavation or boring waters? If yes, indicate location and thickness.		X	

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 #
322Ash-1	Excav at fill end	Soil	Sandy	6'	3/20/12 1415 hrs	P. Shaw	
322Ash-2	Excav at fill end	Soil	Sandy	4'	3/21/12 1345 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store the samples. Also include the preservative used for each sample. Please use the space provided below.

Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC Assessment Guidelines. Sample containers were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted from area below tank. The samples were marked, logged, and immediately placed in a sample cooler packed with ice to maintain an approximate temperature of 4 degrees Centigrade. Tools were thoroughly cleaned and decontaminated with the seven step decon process after each use. The samples remained in custody of SBG-EEG, Inc. until they were transferred to Test America Incorporated for analysis as documented in the Chain of Custody Record.

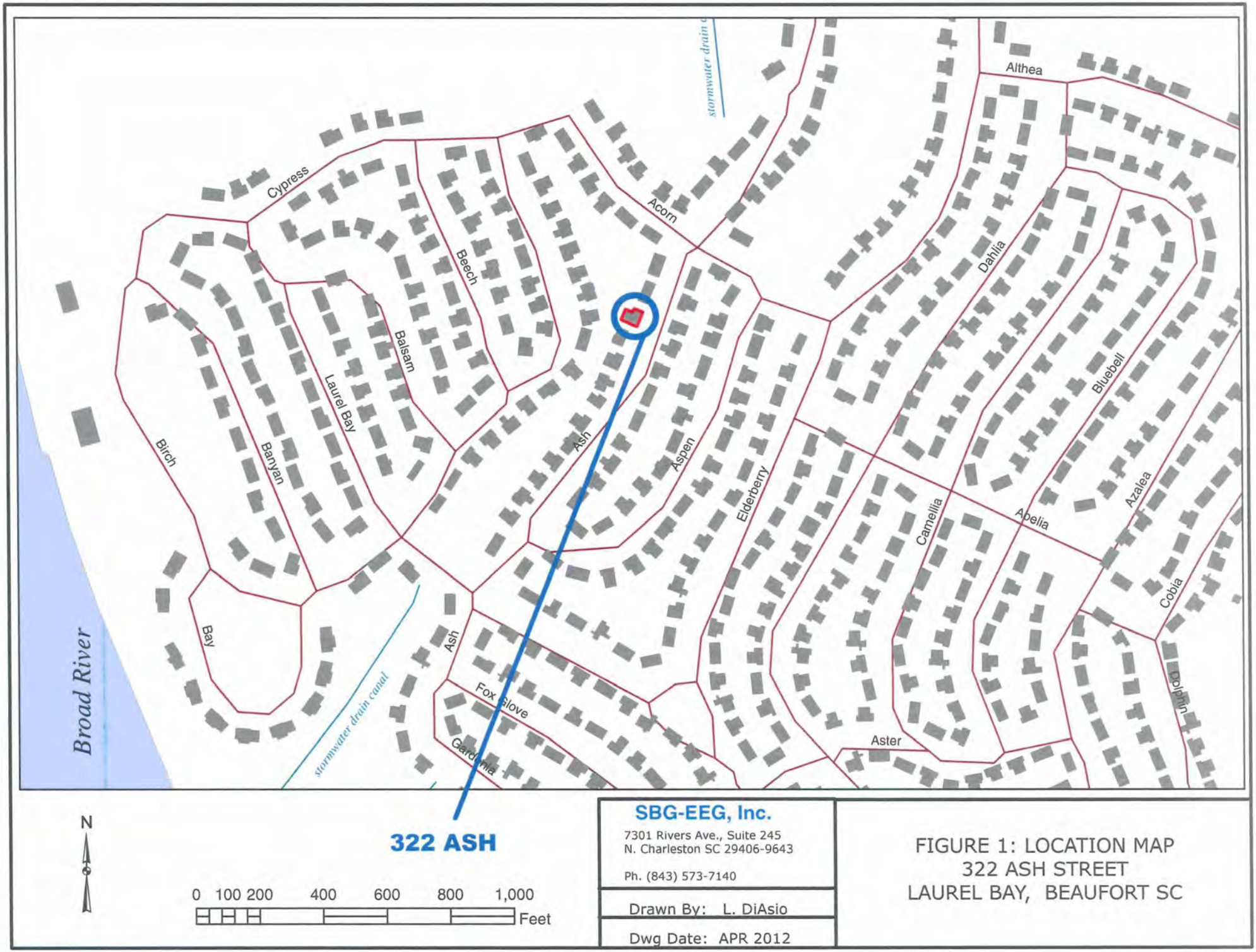
XII. RECEPTORS

	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *~620' stormwater canal If yes, indicate type of receptor, distance, and direction on site map.	*X	
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		X
C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map.		X
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, electricity, cable & fiber optic If yes, indicate the type of utility, distance, and direction on the site map.	*X	
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? If yes, indicate the area of contaminated soil on the site map.		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)



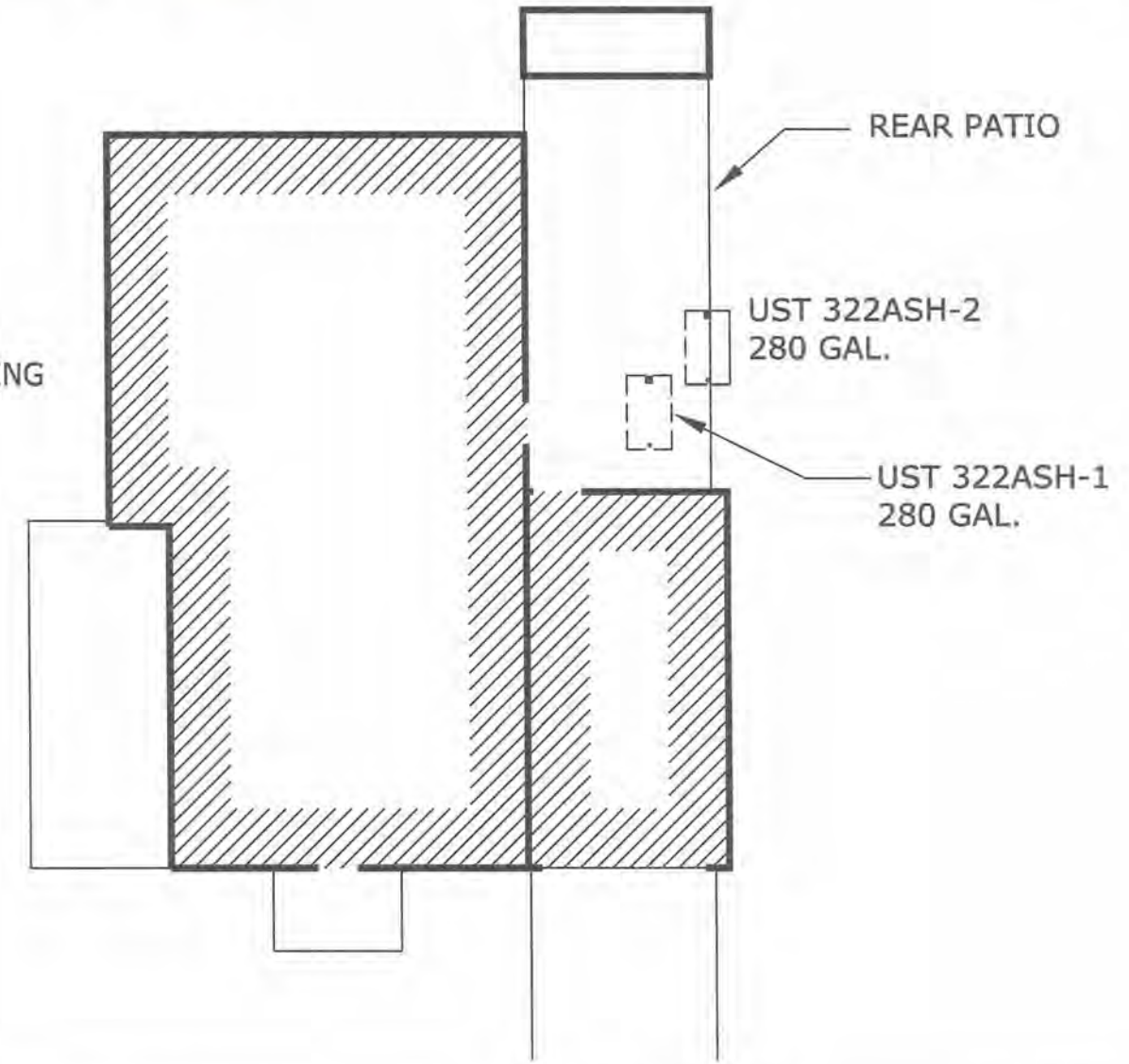
SBG-EEG, Inc.
7301 Rivers Ave., Suite 245
N. Charleston SC 29406-9643
Ph. (843) 573-7140

Drawn By: L. DiAsio

Dwg Date: APR 2012

FIGURE 1: LOCATION MAP
322 ASH STREET
LAUREL BAY, BEAUFORT SC

STORMWATER DRAINAGE CANAL ≈ 620'



322 ASH STREET
LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SC

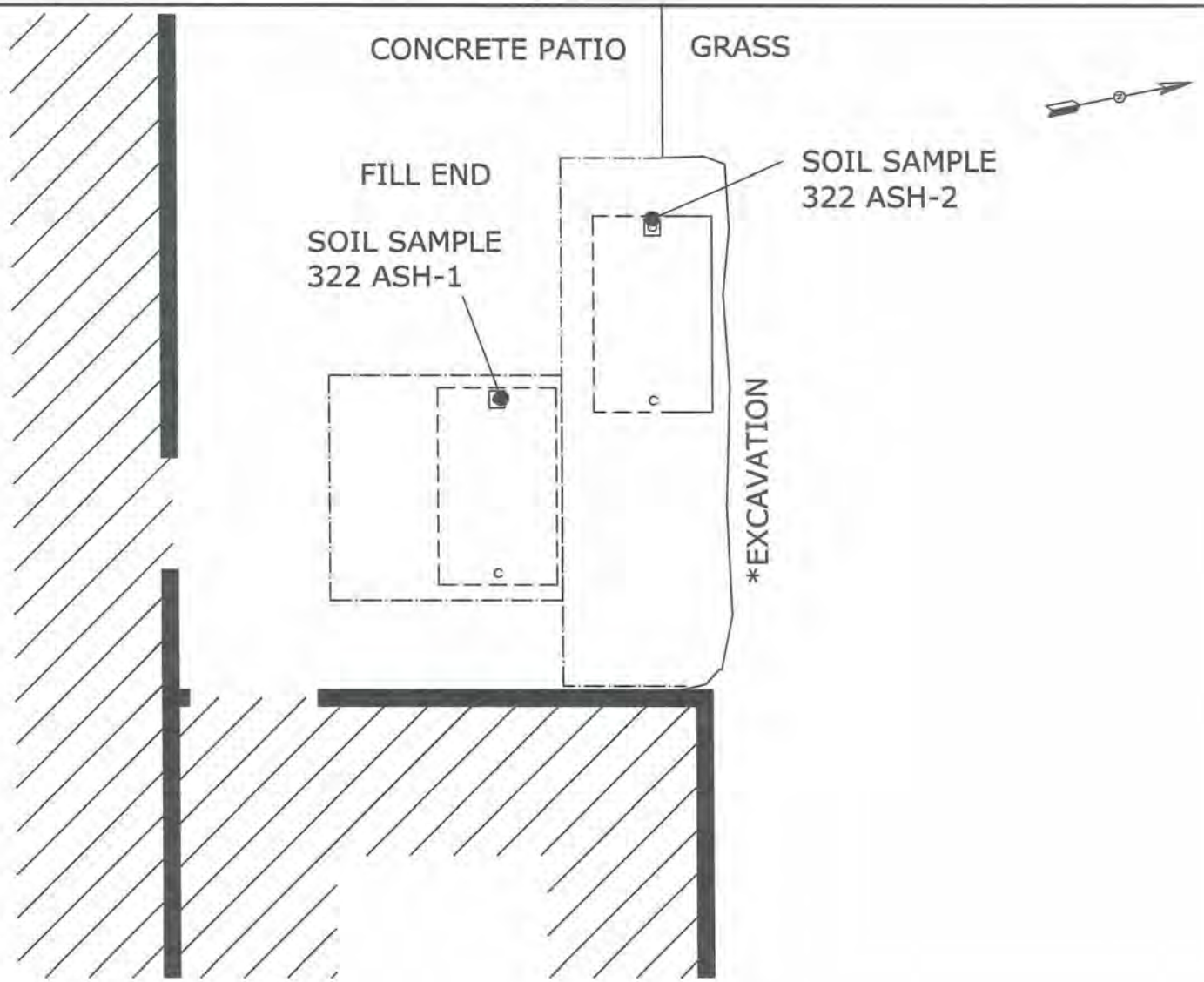
GRAPHIC SCALE
0 5' 10' 20'

TANK DEPTH BELOW GRADE
322ASH-1 = 36"
322ASH-2 = 12"

SBG-EEG
7301 RIVERS AVE., SUITE 245
N. CHARLESTON SC 29406
(843) 573-7140

FIGURE 2 SITE MAP
322 ASH STREET, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE APR 2012



* PORTIONS OF THE PATIO WERE REMOVED TO FACILITATE EXTRACTING THE TANKS.

GRAPHIC SCALE
0 5'

STORMWATER DRAINAGE
CANAL ≈ 620'

SBG-EEG
7301 RIVERS AVE., SUITE 245
N. CHARLESTON SC 29406
(843) 573-7140

FIGURE 3 UST SAMPLE LOCATIONS
322 ASH STREET LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE APR 2012

Picture 1: Location of the tanks at 322 Ash Street.

Picture 2: UST 322Ash-1 extraction in progress.

Picture 3: Excavation of UST 322Ash-2.

Picture 4: 322 Ash Street patio after restoration.

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	322Ash-1		322Ash-2		
Benzene	ND		ND		
Toluene	ND		ND		
Ethylbenzene	ND		ND		
Xylenes	ND		ND		
Naphthalene	ND		ND		
Benzo (a) anthracene	1.08 mg/kg		ND		
Benzo (b) fluoranthene	1.01 mg/kg		ND		
Benzo (k) fluoranthene	0.642 mg/kg		ND		
Chrysene	1.27 mg/kg		ND		
Dibenz (a, h) anthracene	ND		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: NWC3231
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:
4/9/2012 1:07:05 PM

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

Table of Contents

Sample Summary

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

TestAmerica Job ID: NWC3231

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
NWC3231-01	322 Ash-1	Soil	03/20/12 14:15	03/26/12 09:00
NWC3231-02	322 Ash-2	Soil	03/21/12 13:45	03/26/12 09:00

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Qualifiers

GCMS Semivolatiles

Qualifier	Qualifier Description
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
R2	The RPD exceeded the acceptance limit.

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
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
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: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NWC3231

Client Sample ID: 322 Ash-1
Date Collected: 03/20/12 14:15
Date Received: 03/26/12 09:00

Lab Sample ID: NWC3231-01
Matrix: Soil
Percent Solids: 87.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00244	0.00134	mg/kg dry		03/20/12 14:15	04/02/12 19:27	1.00
Ethylbenzene	ND		0.00244	0.00134	mg/kg dry		03/20/12 14:15	04/02/12 19:27	1.00
Naphthalene	ND		0.00610	0.00305	mg/kg dry		03/20/12 14:15	04/02/12 19:27	1.00
Toluene	ND		0.00244	0.00134	mg/kg dry		03/20/12 14:15	04/02/12 19:27	1.00
Xylenes, total	ND		0.00610	0.00305	mg/kg dry		03/20/12 14:15	04/02/12 19:27	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*102*		*70 - 130*	*03/20/12 14:15*	*04/02/12 19:27*	*1.00*
Dibromofluoromethane	*99*		*70 - 130*	*03/20/12 14:15*	*04/02/12 19:27*	*1.00*
Toluene-d8	*106*		*70 - 130*	*03/20/12 14:15*	*04/02/12 19:27*	*1.00*
4-Bromofluorobenzene	*105*		*70 - 130*	*03/20/12 14:15*	*04/02/12 19:27*	*1.00*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Acenaphthylene	ND		0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Anthracene	0.125		0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Benzo (a) anthracene	1.08	M7	0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Benzo (a) pyrene	0.702	M7	0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Benzo (b) fluoranthene	1.01	M7	0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Benzo (g,h,i) perylene	0.269		0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Benzo (k) fluoranthene	0.642	M7	0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Chrysene	1.27	M7 M8	0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Dibenz (a,h) anthracene	ND		0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Fluoranthene	1.70	M7 M8	0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Fluorene	ND		0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Indeno (1,2,3-cd) pyrene	0.286		0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Naphthalene	ND		0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Phenanthrene	0.331		0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
Pyrene	1.61	M7 M8	0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
1-Methylnaphthalene	ND		0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00
2-Methylnaphthalene	ND		0.0743	0.0377	mg/kg dry		03/30/12 06:50	04/01/12 22:33	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*88*		*18 - 120*	*03/30/12 06:50*	*04/01/12 22:33*	*1.00*
2-Fluorobiphenyl	*67*		*14 - 120*	*03/30/12 06:50*	*04/01/12 22:33*	*1.00*
Nitrobenzene-d5	*72*		*17 - 120*	*03/30/12 06:50*	*04/01/12 22:33*	*1.00*

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	87.8		0.500	0.500	%		03/26/12 16:05	03/27/12 12:19	1.00

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

TestAmerica Job ID: NWC3231

Client Sample ID: 322 Ash-2
Date Collected: 03/21/12 13:45
Date Received: 03/26/12 09:00

Lab Sample ID: NWC3231-02
Matrix: Soil
Percent Solids: 85.2

5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00185	0.00102	mg/kg dry		03/21/12 13:45	04/02/12 19:56	1.00
Ethylbenzene	ND		0.00185	0.00102	mg/kg dry		03/21/12 13:45	04/02/12 19:56	1.00
Naphthalene	ND		0.00463	0.00231	mg/kg dry		03/21/12 13:45	04/02/12 19:56	1.00
Toluene	ND		0.00185	0.00102	mg/kg dry		03/21/12 13:45	04/02/12 19:56	1.00
Xylenes, total	ND		0.00463	0.00231	mg/kg dry		03/21/12 13:45	04/02/12 19:56	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*99*		*70 - 130*	*03/21/12 13:45*	*04/02/12 19:56*	*1.00*
Dibromofluoromethane	*93*		*70 - 130*	*03/21/12 13:45*	*04/02/12 19:56*	*1.00*
Toluene-d8	*109*		*70 - 130*	*03/21/12 13:45*	*04/02/12 19:56*	*1.00*
4-Bromofluorobenzene	*117*		*70 - 130*	*03/21/12 13:45*	*04/02/12 19:56*	*1.00*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Acenaphthylene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Anthracene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Benzo (a) anthracene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Benzo (a) pyrene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Benzo (b) fluoranthene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Benzo (g,h,i) perylene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Benzo (k) fluoranthene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Chrysene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Dibenz (a,h) anthracene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Fluoranthene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Fluorene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Naphthalene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Phenanthrene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
Pyrene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
1-Methylnaphthalene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00
2-Methylnaphthalene	ND		0.0777	0.0395	mg/kg dry		03/30/12 06:50	04/01/12 22:56	1.00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*74*		*18 - 120*	*03/30/12 06:50*	*04/01/12 22:56*	*1.00*
2-Fluorobiphenyl	*59*		*14 - 120*	*03/30/12 06:50*	*04/01/12 22:56*	*1.00*
Nitrobenzene-d5	*62*		*17 - 120*	*03/30/12 06:50*	*04/01/12 22:56*	*1.00*

Method: SW-846 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
% Dry Solids	85.2		0.500	0.500	%		03/26/12 16:05	03/27/12 12:19	1.00

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

Lab Sample ID: 12D0234-BLK1
Matrix: Soil
Analysis Batch: V005469

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12D0234_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.00110	mg/kg wet		04/02/12 10:52	04/02/12 13:16	1.00
Ethylbenzene	ND		0.00200	0.00110	mg/kg wet		04/02/12 10:52	04/02/12 13:16	1.00
Naphthalene	ND		0.00500	0.00250	mg/kg wet		04/02/12 10:52	04/02/12 13:16	1.00
Toluene	ND		0.00200	0.00110	mg/kg wet		04/02/12 10:52	04/02/12 13:16	1.00
Xylenes, total	ND		0.00500	0.00250	mg/kg wet		04/02/12 10:52	04/02/12 13:16	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*96*		*70 - 130*	*04/02/12 10:52*	*04/02/12 13:16*	*1.00*
Dibromofluoromethane	*90*		*70 - 130*	*04/02/12 10:52*	*04/02/12 13:16*	*1.00*
Toluene-d8	*106*		*70 - 130*	*04/02/12 10:52*	*04/02/12 13:16*	*1.00*
4-Bromofluorobenzene	*104*		*70 - 130*	*04/02/12 10:52*	*04/02/12 13:16*	*1.00*

Lab Sample ID: 12D0234-BLK2
Matrix: Soil
Analysis Batch: V005469

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12D0234_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0550	mg/kg wet		04/02/12 10:52	04/02/12 13:44	50.0
Ethylbenzene	ND		0.100	0.0550	mg/kg wet		04/02/12 10:52	04/02/12 13:44	50.0
Naphthalene	ND		0.250	0.125	mg/kg wet		04/02/12 10:52	04/02/12 13:44	50.0
Toluene	ND		0.100	0.0550	mg/kg wet		04/02/12 10:52	04/02/12 13:44	50.0
Xylenes, total	ND		0.250	0.125	mg/kg wet		04/02/12 10:52	04/02/12 13:44	50.0

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4	*92*		*70 - 130*	*04/02/12 10:52*	*04/02/12 13:44*	*50.0*
Dibromofluoromethane	*91*		*70 - 130*	*04/02/12 10:52*	*04/02/12 13:44*	*50.0*
Toluene-d8	*107*		*70 - 130*	*04/02/12 10:52*	*04/02/12 13:44*	*50.0*
4-Bromofluorobenzene	*106*		*70 - 130*	*04/02/12 10:52*	*04/02/12 13:44*	*50.0*

Lab Sample ID: 12D0234-BS1
Matrix: Soil
Analysis Batch: V005469

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12D0234_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	54.7		ug/kg		109	75 - 127
Ethylbenzene	50.0	57.3		ug/kg		115	80 - 134
Naphthalene	50.0	59.0		ug/kg		118	69 - 150
Toluene	50.0	56.6		ug/kg		113	80 - 132
Xylenes, total	150	170		ug/kg		113	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4	*101*		*70 - 130*
Dibromofluoromethane	*100*		*70 - 130*
Toluene-d8	*106*		*70 - 130*
4-Bromofluorobenzene	*102*		*70 - 130*

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

Lab Sample ID: 12D0234-BSD1
Matrix: Soil
Analysis Batch: V005469

Client Sample ID: Lab Control Sample Dup
Prep Type: Total
Prep Batch: 12D0234_P

Analyte	Spike Added	LCS Dup Result	LCS Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	50.2		ug/kg		100	75 - 127	8	50
Ethylbenzene	50.0	54.8		ug/kg		110	80 - 134	4	50
Naphthalene	50.0	55.5		ug/kg		111	69 - 150	6	50
Toluene	50.0	55.4		ug/kg		111	80 - 132	2	50
Xylenes, total	150	163		ug/kg		109	80 - 137	4	50

Surrogate	*LCS Dup %Recovery*	*LCS Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*96*		*70 - 130*
Dibromofluoromethane	*94*		*70 - 130*
Toluene-d8	*107*		*70 - 130*
4-Bromofluorobenzene	*103*		*70 - 130*

Lab Sample ID: 12D0234-MS1
Matrix: Soil
Analysis Batch: V005469

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 12D0234_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		2.21	2.55		mg/kg wet		116	31 - 143
Ethylbenzene	0.292		2.21	3.12		mg/kg wet		128	23 - 161
Naphthalene	0.406		2.21	2.85		mg/kg wet		110	10 - 176
Toluene	ND		2.21	2.82		mg/kg wet		128	30 - 155
Xylenes, total	0.518		6.63	8.95		mg/kg wet		127	25 - 162

Surrogate	*Matrix Spike %Recovery*	*Matrix Spike Qualifier*	*Limits*
1,2-Dichloroethane-d4	*93*		*70 - 130*
Dibromofluoromethane	*90*		*70 - 130*
Toluene-d8	*107*		*70 - 130*
4-Bromofluorobenzene	*103*		*70 - 130*

Lab Sample ID: 12D0234-MSD1
Matrix: Soil
Analysis Batch: V005469

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 12D0234_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		2.21	2.44		mg/kg wet		110	31 - 143	5	50
Ethylbenzene	0.292		2.21	3.08		mg/kg wet		126	23 - 161	2	50
Naphthalene	0.406		2.21	2.98		mg/kg wet		117	10 - 176	5	50
Toluene	ND		2.21	2.77		mg/kg wet		125	30 - 155	2	50
Xylenes, total	0.518		6.63	8.81		mg/kg wet		125	25 - 162	2	50

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
1,2-Dichloroethane-d4	*93*		*70 - 130*
Dibromofluoromethane	*90*		*70 - 130*
Toluene-d8	*106*		*70 - 130*
4-Bromofluorobenzene	*103*		*70 - 130*

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

Lab Sample ID: 12C5607-BLK1
Matrix: Soil
Analysis Batch: 12C5607

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 12C5607_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Acenaphthylene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Anthracene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Benzo (a) anthracene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Benzo (a) pyrene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Benzo (b) fluoranthene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Benzo (g,h,i) perylene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Benzo (k) fluoranthene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Chrysene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Dibenz (a,h) anthracene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Fluoranthene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Fluorene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Indeno (1,2,3-cd) pyrene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Naphthalene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Phenanthrene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
Pyrene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
1-Methylnaphthalene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00
2-Methylnaphthalene	ND		0.0670	0.0340	mg/kg wet		03/30/12 06:50	04/01/12 21:24	1.00

Surrogate	*Blank %Recovery*	*Blank Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*73*		*18 - 120*	*03/30/12 06:50*	*04/01/12 21:24*	*1.00*
2-Fluorobiphenyl	*56*		*14 - 120*	*03/30/12 06:50*	*04/01/12 21:24*	*1.00*
Nitrobenzene-d5	*57*		*17 - 120*	*03/30/12 06:50*	*04/01/12 21:24*	*1.00*

Lab Sample ID: 12C5607-BS1
Matrix: Soil
Analysis Batch: 12C5607

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12C5607_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1.67	1.15		mg/kg wet		69	36 - 120
Acenaphthylene	1.67	1.10		mg/kg wet		66	38 - 120
Anthracene	1.67	1.20		mg/kg wet		72	46 - 124
Benzo (a) anthracene	1.67	1.18		mg/kg wet		71	45 - 120
Benzo (a) pyrene	1.67	1.19		mg/kg wet		71	45 - 120
Benzo (b) fluoranthene	1.67	1.10		mg/kg wet		66	42 - 120
Benzo (g,h,i) perylene	1.67	1.12		mg/kg wet		67	38 - 120
Benzo (k) fluoranthene	1.67	1.31		mg/kg wet		78	42 - 120
Chrysene	1.67	1.18		mg/kg wet		71	43 - 120
Dibenz (a,h) anthracene	1.67	0.970		mg/kg wet		58	32 - 128
Fluoranthene	1.67	1.21		mg/kg wet		72	46 - 120
Fluorene	1.67	1.17		mg/kg wet		70	42 - 120
Indeno (1,2,3-cd) pyrene	1.67	1.09		mg/kg wet		66	41 - 121
Naphthalene	1.67	1.16		mg/kg wet		70	32 - 120
Phenanthrene	1.67	1.21		mg/kg wet		73	45 - 120
Pyrene	1.67	1.30		mg/kg wet		78	43 - 120
1-Methylnaphthalene	1.67	0.805		mg/kg wet		48	32 - 120
2-Methylnaphthalene	1.67	1.05		mg/kg wet		63	28 - 120

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

Lab Sample ID: 12C5607-BS1
Matrix: Soil
Analysis Batch: 12C5607

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 12C5607_P

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14	75		18 - 120
2-Fluorobiphenyl	55		14 - 120
Nitrobenzene-d5	56		17 - 120

Lab Sample ID: 12C5607-MS1
Matrix: Soil
Analysis Batch: 12C5607

Client Sample ID: 322 Ash-1
Prep Type: Total
Prep Batch: 12C5607_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		1.88	1.10		mg/kg dry		58	19 - 120
Acenaphthylene	ND		1.88	1.02		mg/kg dry		54	25 - 120
Anthracene	0.125		1.88	1.14		mg/kg dry		54	28 - 125
Benzo (a) anthracene	1.08	M7	1.88	1.53		mg/kg dry		24	23 - 120
Benzo (a) pyrene	0.702	M7	1.88	1.36		mg/kg dry		35	15 - 128
Benzo (b) fluoranthene	1.01	M7	1.88	1.52		mg/kg dry		27	12 - 133
Benzo (g,h,i) perylene	0.269		1.88	1.13		mg/kg dry		46	22 - 120
Benzo (k) fluoranthene	0.642	M7	1.88	1.24		mg/kg dry		32	28 - 120
Chrysene	1.27	M7 M8	1.88	1.55	M8	mg/kg dry		15	20 - 120
Dibenz (a,h) anthracene	ND		1.88	0.936		mg/kg dry		50	12 - 128
Fluoranthene	1.70	M7 M8	1.88	1.81	M8	mg/kg dry		6	10 - 143
Fluorene	ND		1.88	1.11		mg/kg dry		59	20 - 120
Indeno (1,2,3-cd) pyrene	0.286		1.88	1.10		mg/kg dry		43	22 - 121
Naphthalene	ND		1.88	1.14		mg/kg dry		60	10 - 120
Phenanthrene	0.331		1.88	1.24		mg/kg dry		48	21 - 122
Pyrene	1.61	M7 M8	1.88	1.81	M8	mg/kg dry		11	20 - 123
1-Methylnaphthalene	ND		1.88	0.744		mg/kg dry		40	10 - 120
2-Methylnaphthalene	ND		1.88	0.960		mg/kg dry		51	13 - 120

Surrogate	Matrix Spike %Recovery	Matrix Spike Qualifier	Limits
Terphenyl-d14	59		18 - 120
2-Fluorobiphenyl	43		14 - 120
Nitrobenzene-d5	43		17 - 120

Lab Sample ID: 12C5607-MSD1
Matrix: Soil
Analysis Batch: 12C5607

Client Sample ID: 322 Ash-1
Prep Type: Total
Prep Batch: 12C5607_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		1.87	1.44		mg/kg dry		77	19 - 120	27	50
Acenaphthylene	ND		1.87	1.42		mg/kg dry		76	25 - 120	33	50
Anthracene	0.125		1.87	1.84		mg/kg dry		92	28 - 125	47	49
Benzo (a) anthracene	1.08	M7	1.87	7.26	M7 R2	mg/kg dry		331	23 - 120	130	50
Benzo (a) pyrene	0.702	M7	1.87	4.59	M7 R2	mg/kg dry		208	15 - 128	108	50
Benzo (b) fluoranthene	1.01	M7	1.87	5.97	M7 R2	mg/kg dry		265	12 - 133	119	50
Benzo (g,h,i) perylene	0.269		1.87	2.52	R2	mg/kg dry		120	22 - 120	76	50
Benzo (k) fluoranthene	0.642	M7	1.87	3.75	M7 R2	mg/kg dry		166	28 - 120	101	45
Chrysene	1.27	M7 M8	1.87	7.11	M7 R2	mg/kg dry		312	20 - 120	128	49
Dibenz (a,h) anthracene	ND		1.87	1.82	R2	mg/kg dry		97	12 - 128	64	50
Fluoranthene	1.70	M7 M8	1.87	9.06	M7 R2	mg/kg dry		393	10 - 143	133	50

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

Lab Sample ID: 12C5607-MSD1
Matrix: Soil
Analysis Batch: 12C5607

Client Sample ID: 322 Ash-1
Prep Type: Total
Prep Batch: 12C5607_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluorene	ND		1.87	1.49		mg/kg dry	☼	80	20 - 120	30	50
Indeno (1,2,3-cd) pyrene	0.286		1.87	2.53	R2	mg/kg dry	☼	120	22 - 121	78	50
Naphthalene	ND		1.87	1.44		mg/kg dry	☼	77	10 - 120	24	50
Phenanthrene	0.331		1.87	2.39	R2	mg/kg dry	☼	110	21 - 122	63	50
Pyrene	1.61	M7 M8	1.87	9.27	M7 R2	mg/kg dry	☼	409	20 - 123	134	50
1-Methylnaphthalene	ND		1.87	1.03		mg/kg dry	☼	55	10 - 120	32	50
2-Methylnaphthalene	ND		1.87	1.32		mg/kg dry	☼	71	13 - 120	32	50

Surrogate	*Matrix Spike Dup %Recovery*	*Matrix Spike Dup Qualifier*	*Limits*
Terphenyl-d14	*88*		*18 - 120*
2-Fluorobiphenyl	*66*		*14 - 120*
Nitrobenzene-d5	*61*		*17 - 120*

Method: SW-846 - General Chemistry Parameters

Lab Sample ID: 12C5440-DUP1
Matrix: Soil
Analysis Batch: 12C5440

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 12C5440_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
% Dry Solids	79.5		79.2		%		0.4	20

GCMS Volatiles

Analysis Batch: V005469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12D0234-BLK1	Method Blank	Total	Soil	SW846 8260B	12D0234_P
12D0234-BLK2	Method Blank	Total	Soil	SW846 8260B	12D0234_P
12D0234-BS1	Lab Control Sample	Total	Soil	SW846 8260B	12D0234_P
12D0234-BSD1	Lab Control Sample Dup	Total	Soil	SW846 8260B	12D0234_P
12D0234-MS1	Matrix Spike	Total	Soil	SW846 8260B	12D0234_P
12D0234-MSD1	Matrix Spike Duplicate	Total	Soil	SW846 8260B	12D0234_P
NWC3231-01	322 Ash-1	Total	Soil	SW846 8260B	12D0234_P
NWC3231-02	322 Ash-2	Total	Soil	SW846 8260B	12D0234_P

Prep Batch: 12D0234_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12D0234-BLK1	Method Blank	Total	Soil	EPA 5035	
12D0234-BLK2	Method Blank	Total	Soil	EPA 5035	
12D0234-BS1	Lab Control Sample	Total	Soil	EPA 5035	
12D0234-BSD1	Lab Control Sample Dup	Total	Soil	EPA 5035	
12D0234-MS1	Matrix Spike	Total	Soil	EPA 5035	
12D0234-MSD1	Matrix Spike Duplicate	Total	Soil	EPA 5035	
NWC3231-01	322 Ash-1	Total	Soil	EPA 5035	
NWC3231-02	322 Ash-2	Total	Soil	EPA 5035	

GCMS Semivolatiles

Analysis Batch: 12C5607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12C5607-BLK1	Method Blank	Total	Soil	SW846 8270D	12C5607_P
12C5607-BS1	Lab Control Sample	Total	Soil	SW846 8270D	12C5607_P
12C5607-MS1	322 Ash-1	Total	Soil	SW846 8270D	12C5607_P
12C5607-MSD1	322 Ash-1	Total	Soil	SW846 8270D	12C5607_P
NWC3231-01	322 Ash-1	Total	Soil	SW846 8270D	12C5607_P
NWC3231-02	322 Ash-2	Total	Soil	SW846 8270D	12C5607_P

Prep Batch: 12C5607_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12C5607-BLK1	Method Blank	Total	Soil	EPA 3550C	
12C5607-BS1	Lab Control Sample	Total	Soil	EPA 3550C	
12C5607-MS1	322 Ash-1	Total	Soil	EPA 3550C	
12C5607-MSD1	322 Ash-1	Total	Soil	EPA 3550C	
NWC3231-01	322 Ash-1	Total	Soil	EPA 3550C	
NWC3231-02	322 Ash-2	Total	Soil	EPA 3550C	

Extractions

Analysis Batch: 12C5440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12C5440-DUP1	Duplicate	Total	Soil	SW-846	12C5440_P
NWC3231-01	322 Ash-1	Total	Soil	SW-846	12C5440_P
NWC3231-02	322 Ash-2	Total	Soil	SW-846	12C5440_P

Prep Batch: 12C5440_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
12C5440-DUP1	Duplicate	Total	Soil	% Solids	
NWC3231-01	322 Ash-1	Total	Soil	% Solids	

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

TestAmerica Job ID: NWC3231

Extractions (Continued)

Prep Batch: 12C5440_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
NWC3231-02	322 Ash-2	Total	Soil	% Solids	

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Lab Chronicle

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

TestAmerica Job ID: NWC3231

Client Sample ID: 322 Ash-1

Date Collected: 03/20/12 14:15
Date Received: 03/26/12 09:00

Lab Sample ID: NWC3231-01

Matrix: Soil
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		1.07	12D0234_P	03/20/12 14:15	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	V005469	04/02/12 19:27	MJH /	TAL NSH
Total	Prep	EPA 3550C		0.973	12C5607_P	03/30/12 06:50	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	12C5607	04/01/12 22:33	KJP	TAL NSH
Total	Prep	% Solids		1.00	12C5440_P	03/26/12 16:05	RRS	TAL NSH
Total	Analysis	SW-846		1.00	12C5440	03/27/12 12:19	RRS	TAL NSH

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Client Sample ID: 322 Ash-2

Date Collected: 03/21/12 13:45
Date Received: 03/26/12 09:00

Lab Sample ID: NWC3231-02

Matrix: Soil
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EPA 5035		0.789	12D0234_P	03/21/12 13:45	TSP	TAL NSH
Total	Analysis	SW846 8260B		1.00	V005469	04/02/12 19:56	MJH /	TAL NSH
Total	Prep	EPA 3550C		0.989	12C5607_P	03/30/12 06:50	JJR	TAL NSH
Total	Analysis	SW846 8270D		1.00	12C5607	04/01/12 22:56	KJP	TAL NSH
Total	Prep	% Solids		1.00	12C5440_P	03/26/12 16:05	RRS	TAL NSH
Total	Analysis	SW-846		1.00	12C5440	03/27/12 12:19	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: NWC3231

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

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Certification Summary

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

TestAmerica Job ID: NWC3231

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Nashville		ACIL		393
TestAmerica Nashville	A2LA	ISO/IEC 17025		0453.07
TestAmerica Nashville	Alabama	State Program	4	41150
TestAmerica Nashville	Alaska (UST)	State Program	10	UST-087
TestAmerica Nashville	Arizona	State Program	9	AZ0473
TestAmerica Nashville	Arkansas DEQ	State Program	6	88-0737
TestAmerica Nashville	California	NELAC	9	1168CA
TestAmerica Nashville	Canadian Assoc Lab Accred (CALA)	Canada		3744
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	State Program	4	90038
TestAmerica Nashville	Kentucky (UST)	State Program	4	19
TestAmerica Nashville	Louisiana	NELAC	6	30613
TestAmerica Nashville	Louisiana	NELAC	6	LA110014
TestAmerica Nashville	Massachusetts	State Program	1	M-TN032
TestAmerica Nashville	Mississippi	State Program	4	N/A
TestAmerica Nashville	Montana (UST)	State Program	8	NA
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 DENR	State Program	4	387
TestAmerica Nashville	North Dakota	State Program	8	R-146
TestAmerica Nashville	Ohio VAP	State Program	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	Federal		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 DEP	State Program	3	219
TestAmerica Nashville	Wisconsin	State Program	5	998020430
TestAmerica Nashville	Wyoming (UST)	A2LA	8	453.07

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.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?

Compliance Monitoring? Yes ____ No ____

Enforcement Action? Yes ____ No ____

Client Name/Account #: EEG - SBG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

Project Manager: Tom McElwee email: mcelwee@eeginc.net

Telephone Number: 843.412.2097 Fax No.: 843-879-0401

Sampler Name: (Print) Matt Shaw

Sampler Signature:

Site State: SC

PO#: 1063

TA Quote #:

Project ID: Laurel Bay Housing Project

Project #:

NWC3231
04/09/12 23:59

	Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red Label)	Sodium Bisulfate (Yellow Label)	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass (Yellow Label)	Non-Preserved (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX + Naph - 8260B	PAH - 8270D	RUSH TAT (Pre-Scheduled)
1	322 Ash-1	3/20/12	1415	5	X					2				2	1					X		X	X	
2	322 Ash-2	3/21/12	1345	5	X					2				2	1					X		X	X	

Special Instructions:

Method of Shipment: FEDEX

	Date	Time		Date	Time
Relinquished by:	3/23/12	1400	Received by: Fedex		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				3/26/12	0900

Laboratory Comments:

Temperature Upon Receipt: 0.4

VOCs Free of Headspace? Y

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 322Ash-1; 322 Ash Street, 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	SIZE (GAL)
Steel	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. McGee / 5/1/12
(Name) (Date)

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of 1	

GENERATOR

3. Generator's Mailing Address: MCAS, BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29907 4. Generator's Phone 843-228-6461	Generator's Site Address (If different than mailing):	A. Manifest Number WMNA 00316825 B. State Generator's ID
5. Transporter 1 Company Name EEG, INC.	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone 843-879-0411
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY ROAD RIDGELAND, SC 29936	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 843-987-4643

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. HEATING OIL TANKS FILLED WITH SAND WM Profile # 102655SC					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information
4 UST's from: 2) 382 Aspen-2 ✓ 4) 322 Ash-2 ✓
1) 330 Ash-1 ✓ 3) 375 Aspen 5) 369 Aspen ✓ 6) 359 Aspen ✓

Purchase Order # EMERGENCY CONTACT / PHONE NO.:

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
W.G. Dickens Jr.		04	11	12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
H.P. Shaw Jr.		04	11	12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
James Baldwin	James Baldwin	4	11	12

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Toni Cofield	Toni Cofield	4	11	12

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Appendix C
Laboratory Analytical Report - Groundwater

CDM - AECOM
Multimedia Joint Venture

Volatile Organic Compounds by GC/MS

Client: **AECOM - Resolution Consultants**
Laboratory ID: **QE29035-009**
Description: **BEALB322TW01WG20150528**
Matrix: **Aqueous**
Date Sampled: **05/28/2015 1145**
Date Received: **05/29/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/02/2015 1800	EH1		76315

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	0.45	U	5.0	0.45	0.21	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**3.3**	**J**	**5.0**	0.51	**0.17**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**9.9**		**5.0**	0.96	**0.32**	**ug/L**	**1**
Toluene	108-88-3	8260B	0.48	U	5.0	0.48	0.16	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**7.5**		**5.0**	0.57	**0.19**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	75-120
1,2-Dichloroethane-d4		91	70-120
Toluene-d8		102	85-120
Dibromofluoromethane		99	85-115

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Semivolatile Organic Compounds by GC/MS (SIM)

Client: **AECOM - Resolution Consultants**
Laboratory ID: **QE29035-009**
Description: **BEALB322TW01WG20150528**
Matrix: **Aqueous**
Date Sampled: **05/28/2015 1145**
Date Received: **05/29/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270D (SIM)	1	06/02/2015 2149	RBH	06/01/2015 1430	76221

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzo(a)anthracene	**56-55-3**	**8270D (SIM)**	**0.037**	**J**	**0.20**	0.040	**0.019**	**ug/L**	**1**
Benzo(b)fluoranthene	**205-99-2**	**8270D (SIM)**	**0.021**	**J**	**0.20**	0.040	**0.019**	**ug/L**	**1**
Benzo(k)fluoranthene	207-08-9	8270D (SIM)	0.040	U	0.20	0.040	0.024	ug/L	1
Chrysene	**218-01-9**	**8270D (SIM)**	**0.032**	**J**	**0.20**	0.040	**0.021**	**ug/L**	**1**
Dibenzo(a,h)anthracene	53-70-3	8270D (SIM)	0.080	U	0.20	0.080	0.040	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2-Methylnaphthalene-d10		73	15-139
Fluoranthene-d10		76	23-154

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Appendix D
Regulatory Correspondence

CDM - AECOM
Multimedia Joint Venture

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

May 15, 2014

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

RE: IGWA
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 above referenced Underground Storage Tank 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. The submitted analytical results indicate that petroleum constituents are above established Risk-Based Screening Levels and additional investigation is warranted. Specifically, the Department requests that a groundwater sampling proposal be generated to determine if there has been an impact to groundwater at this site.

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 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)

Attachment to: Krieg to Drawdy
Subject: IGWA
Dated 5/15/2014

Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks)

137 Laurel Bay Tank 2	387 Acorn
139 Laurel Bay	392 Acorn Tank 2
229 Cypress Tank 2	396 Acorn Tank 1
261 Beech Tank 1	396 Acorn Tank 2
261 Beech Tank 3	430 Elderberry
273 Birch Tank 1	433 Elderberry
273 Birch Tank 2	439 Elderberry
273 Birch Tank 3	440 Elderberry
276 Birch Tank 2	442 Elderberry
278 Birch Tank 2	443 Elderberry
291 Birch Tank 2	444 Elderberry Tank 1
300 Ash	445 Elderberry
304 Ash	446 Elderberry
314 Ash Tank 1	448 Elderberry
314 Ash Tank 2	449 Elderberry
322 Ash Tank 2	451 Elderberry
323 Ash	453 Elderberry
324 Ash	456 Elderberry Tank 1
325 Ash Tank 1	456 Elderberry Tank 2
325 Ash Tank 2	458 Elderberry Tank 1
326 Ash	458 Elderberry Tank 3
336 Ash	464 Dogwood
339 Ash	466 Dogwood
343 Ash Tank 1	467 Dogwood
344 Ash Tank 1	468 Dogwood
348 Ash	469 Dogwood
349 Ash Tank 1	471 Dogwood Tank 2
353 Ash Tank 1	471 Dogwood Tank 3
362 Aspen	475 Dogwood Tank 1
376 Aspen	475 Dogwood Tank 2
380 Aspen	516 Laurel Bay Tank 1 (UST#03747)
383 Aspen Tank 2	518 Laurel Bay

Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks) cont.

531 Laurel Bay	1219 Cardinal
532 Laurel Bay	1272 Albatross
635 Dahlia Tank 2	1305 Eagle
638 Dahlia	1353 Cardinal
640 Dahlia Tank 1	1356 Cardinal
640 Dahlia Tank 2	1357 Cardinal
645 Dahlia	1359 Cardinal
647 Dahlia	1360 Cardinal
648 Dahlia Tank 2	1361 Cardinal
650 Dahlia Tank 1	1368 Cardinal
650 Dahlia Tank 2	1370 Cardinal Tank 1
652 Dahlia Tank 1	1377 Dove
652 Dahlia Tank 2	1381 Dove
760 Althea	1382 Dove
763 Althea	1384 Dove
771 Althea	1385 Dove
927 Albacore	1389 Dove
1015 Foxglove	1391 Dove
1046 Gardenia	1392 Dove
1062 Gardenia Tank 2	1393 Dove Tank 1
1070 Heather	1393 Dove Tank 2
1072 Heather	1406 Eagle
1102 Iris Tank 1	1407 Eagle Tank 1
1107 Iris	1411 Eagle Tank 1
1126 Iris	1411 Eagle Tank 2
1129 Iris	1412 Eagle
1132 Iris	1413 Albatross
1133 Iris Tank 1	1414 Albatross
1138 Iris	1422 Albatross
1144 Iris Tank 1	1425 Albatross
1144 Iris Tank 2	1426 Albatross
1148 Iris Tank 1	1432 Dove
1148 Iris Tank 2	1434 Dove
1161 Jasmine	1436 Dove
1167 Jasmine	1438 Dove Tank 1
1170 Jasmine	1440 Dove
1190 Bobwhite	1442 Dove Tank 1
1192 Bobwhite	

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

March 3, 2015

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

RE: IGWA
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 above referenced Underground Storage Tank 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. The submitted analytical results indicate that petroleum constituents are above established Risk-Based Screening Levels and additional investigation is warranted. Specifically, the Department requests that a groundwater sampling proposal be generated to determine if there has been an impact to groundwater at this site.

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 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)

D H E C
PROMOTE PROTECT PROSPER
W. Marshall Taylor Jr., Acting Director
Promoting and protecting the health of the public and the environment

Attachment to: Krieg to Drawdy
Subject: IGWA
Dated 3/3/2015

Laurel Bay Underground Storage Tank Assessment Reports for: (5 addresses/5 tanks)

322 Ash Tank 1	1062 Gardenia Tank 3
444 Elderberry Tank 2	1442 Dove Tank 2
471 Dogwood Tank 1	

D H E C
PROMOTE PROTECT PROSPER
Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

Division of Waste Management
Bureau of Land and Waste Management

February 22, 2016

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

RE: Approval and Concurrence with Draft Final Initial Groundwater Investigation Report-May and June 2015
Laurel Bay Military Housing Area Multiple Properties
Dated October 2015

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Investigation Report for the addresses attached. 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).

Per the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, permanent wells should be installed at the 52 stated addresses. For the remaining 91 addresses, there is no indication of contamination on the property 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 petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

Laurel Petrus
RCRA Federal Facilities Section

Attachment: Specific Property Recommendations

Cc: Russell Berry, EQC Region 8 (via email)
Shawn Dolan, Resolution Consultants (via email)
Bryan Beck, NAVFAC MIDATLANTIC (via email)
Craig Ehde (via email)

Attachment to: Petrus to Drawdy
Subject: Draft Final Initial Groundwater Investigation Report-May and June 2015
Specific Property Recommendations
Dated February 22, 2016

Draft Final Initial Groundwater Investigation Report for (143 addresses)

Permanent Monitoring Well Investigation recommendation (52 addresses)	
273 Birch Drive	1192 Bobwhite Drive
325 Ash Street	1194 Bobwhite Drive
326 Ash Street	1272 Albatross Drive
336 Ash Street	1352 Cardinal Lane
343 Ash Street	1356 Cardinal Lane
353 Ash Street	1359 Cardinal Lane
430 Elderberry Drive	1360 Cardinal Lane
440 Elderberry Drive	1362 Cardinal Lane
456 Elderberry Drive	1370 Cardinal Lane
458 Elderberry Drive	1382 Dove Lane
468 Dogwood Drive	1384 Dove lane
518 Laurel Bay Blvd	1385 Dove Lane
635 Dahlia Drive	1389 Dove Lane
638 Dahlia Drive	1392 Dove Lane
640 Dahlia Drive	1393 Dove Lane
647 Dahlia Drive	1407 Eagle Lane
648 Dahlia Drive	1411 Eagle Lane
650 Dahlia Drive	1418 Albatross Drive
652 Dahlia Drive	1420 Albatross Drive
760 Althea Street	1426 Albatross Drive
1102 Iris Lane	1429 Albatross Drive
1132 Iris Lane	1434 Dove Lane
1133 Iris Lane	1436 Dove Lane
1144 Iris Lane	1440 Dove Lane
1148 Iris Lane	1442 Dove Lane
1186 Bobwhite Drive	1444 Dove Lane
No Further Action recommendation (91 addresses):	
137 Laurel Bay Blvd	771 Althea Street
139 Laurel Bay Blvd	927 Albacore Street
229 Cypress Street	1015 Foxglove Street
261 Beech Street	1046 Gardenia Drive
276 Birch Drive	1062 Gardenia Drive
278 Birch Drive	1070 Heather Street
291 Birch Drive	1072 Heather Street

300 Ash Street	1107 Iris Lane
304 Ash Street	1126 Iris Lane
314 Ash Street	1129 Iris Lane
322 Ash Street	1138 Iris Lane
323 Ash Street	1161 Jasmine Street
324 Ash Street	1167 Jasmine Street
339 Ash Street	1170 Jasmine Street
344 Ash Street	1190 Bobwhite Drive
348 Ash Street	1219 Cardinal Lane
349 Ash Street	1305 Eagle Lane
362 Aspen Street	1353 Cardinal Lane
376 Aspen Street	1354 Cardinal Lane
380 Aspen Street	1357 Cardinal Lane
383 Aspen Street	1361 Cardinal Lane
387 Acorn Drive	1364 Cardinal Lane
392 Acorn Drive	1368 Cardinal Lane
396 Acorn Drive	1377 Dove Lane
433 Elderberry Drive	1381 Dove Lane
439 Elderberry Drive	1391 Dove Lane
442 Elderberry Drive	1403 Eagle Lane
443 Elderberry Drive	1404 Eagle Lane
444 Elderberry Drive	1405 Eagle Lane
445 Elderberry Drive	1406 Eagle Lane
446 Elderberry Drive	1408 Eagle Lane
448 Elderberry Drive	1410 Eagle Lane
449 Elderberry Drive	1412 Eagle Lane
451 Elderberry Drive	1413 Albatross Drive
453 Elderberry Drive	1414 Albatross Drive
464 Dogwood Drive	1417 Albatross Drive
466 Dogwood Drive	1421 Albatross Drive
467 Dogwood Drive	1422 Albatross Drive
469 Dogwood Drive	1425 Albatross Drive
471 Dogwood Drive	1427 Albatross Drive
475 Dogwood Drive	1430 Dove Lane
516 Laurel Bay Blvd	1432 Dove Lane
531 Laurel Bay Blvd	1438 Dove Lane
532 Laurel Bay Blvd	1453 Cardinal Lane
645 Dahlia Drive	1455 Cardinal Lane
763 Althea Street	