

SUMMARY REPORT
64 BIRCH ROAD (FORMERLY 271 BIRCH ROAD)
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
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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
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 64 Birch Road (Formerly 271 Birch Road). 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 64 Birch Road (Formerly 271 Birch Road). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 271 Birch Road* (MCAS Beaufort, 2011). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

In February 2011, two 280 gallon heating oil USTs were removed from the landscaped area to the driveway at 64 Birch Road (Formerly 271 Birch Road). Tank 1 was removed on February 14, 2011. Tank 2 was removed on February 15, 2011. The former UST locations are indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The USTs were 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 depths to the bases of the USTs

were 6'1" bgs (Tank 1) and 4'6" bgs (Tank 2) and a single soil sample was collected for each from those depths. 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 64 Birch Road (Formerly 271 Birch Road) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former USTs 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 64 Birch Road (Formerly 271 Birch Road). 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 – 271 Birch Road, Laurel Bay Military Housing Area, June 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
64 Birch Road (Formerly 271 Birch Road)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Samples Collected 02/14/11 and 02/15/11	
		271 Birch-1 02/14/11	271 Birch-2 02/15/11
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	ND	ND
Benzo(b)fluoranthene	0.66	ND	ND
Benzo(k)fluoranthene	0.66	ND	ND
Chrysene	0.66	ND	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 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

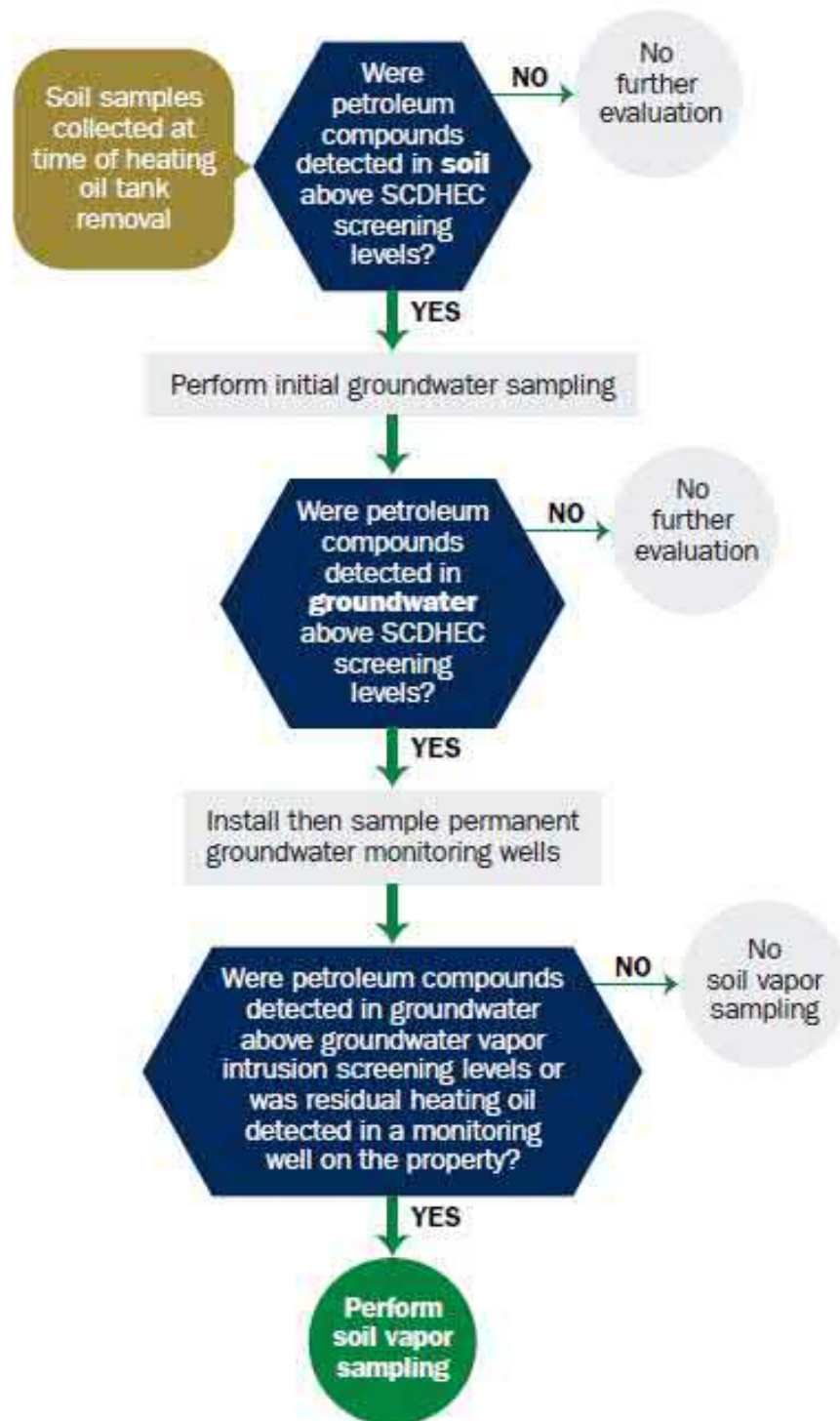
mg/kg - milligram per kilogram

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

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	
271 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

271Birch-1	271Birch-2	
Heating oil	Heating oil	
280 gal	280 gal	
Late 1950s	Late 1950s	
Steel	Steel	
Mid 80s	Mid 80s	
6'1"	4'6"	
No	No	
No	No	
Removed	Removed	
2/14/2011	2/15/2011	
Yes	Yes	
Yes	Yes	

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.....

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

UST 271Birch-1 was removed from the ground, cleaned and recycled.

UST 271Birch-2 was removed from the ground and disposed of 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 271Birch-1 and disposed of by MCAS.

UST 271Birch-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

- 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.

271Birch-1	271Birch-2	
Steel & Copper	Steel & Copper	
N/A	N/A	
N/A	N/A	
Suction	Suction	
Yes	Yes	
Yes	Yes	
No	No	
Late 1950s	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 84009001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
271 Birch-1	Excav at fill end	Soil	Sandy-clay	6'1"	2/14/11 1600 hrs	P. Shaw	
271 Birch-2	Excav at fill end	Soil	Sandy	4'6"	2/15/11 1045 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
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?</p> <p style="text-align: right;">*Approx 475' to stormwater drainage canal</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?</p> <p style="text-align: right;">*Sewer and water</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

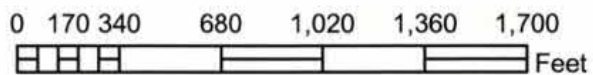
You must supply a scaled site map. It should include all buildings, road names, utilities, tank and dispenser island locations, labeled sample locations, extent of excavation, and any other pertinent information.

(Attach Site Map Here)



Broad River

271 BIRCH DR.



SBG-EEG, Inc.

398 E. 5th North Street, Suite C
Summerville SC 29483-6954

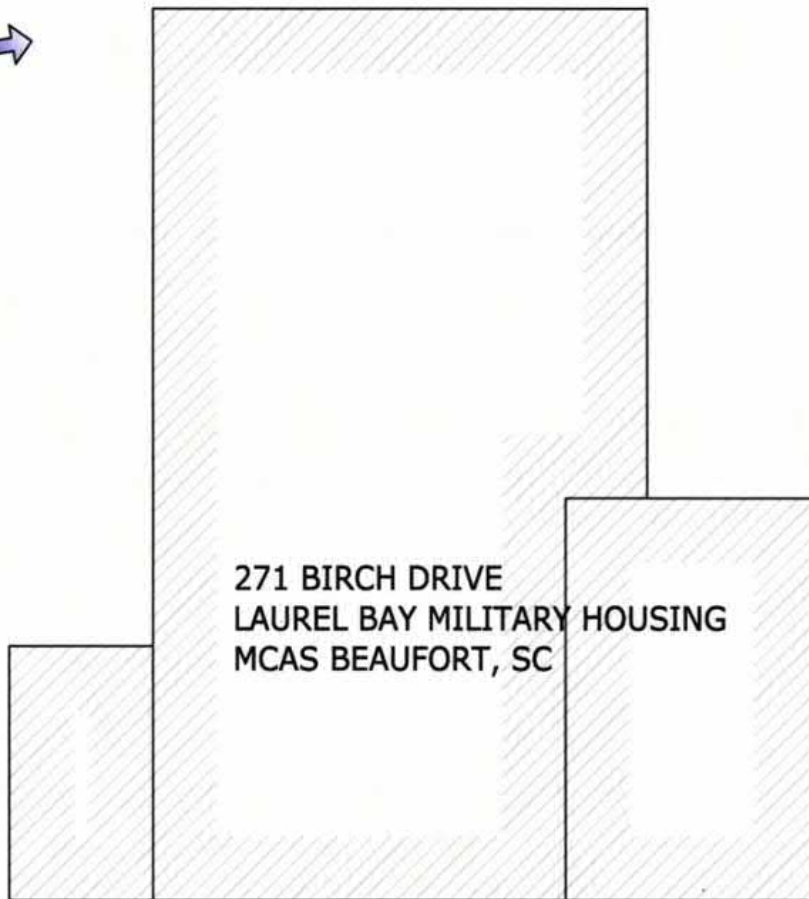
Ph. (843) 875-1930

Drawn By: L. DiAsio

Dwg Date: MAR 2011

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

STORMWATER DRAINAGE
CANAL \approx 475'

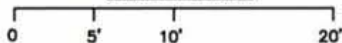


271 BIRCH DRIVE
LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SC

UST 271 BIRCH-1

UST 271 BIRCH-2

GRAPHIC SCALE



SBG-EEG

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

FIGURE 2 SITE MAP
271 BIRCH DR., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE MAR 2011

STORMWATER DRAINAGE
CANAL \approx 475'



271 BIRCH DRIVE



PORCH

UST 271BIRCH-1,
280 GAL.

EXCAVATION

SOIL SAMPLE
271 BIRCH-1

FILL END

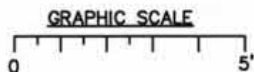
GRASS

GRASS

SIDEWALK

UST 271BIRCH-2,
280 GAL.

SOIL SAMPLE
271 BIRCH-2



DEPTH BELOW GRADE
271BIRCH-1 37"
271BIRCH-2 18"

SBG-EEG

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

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

SCALE: GRAPHIC

DWG DATE MAR 2011



Picture 1: Location of UST 271Birch-1.



Picture 2: UST 271Birch-1 excavation.

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	271Birch-1		271Birch-2			
Benzene		ND		ND			
Toluene		ND		ND			
Ethylbenzene		ND		ND			
Xylenes		ND		ND			
Naphthalene		ND		ND			
Benzo (a) anthracene		ND		ND			
Benzo (b) fluoranthene		ND		ND			
Benzo (k) fluoranthene		ND		ND			
Chrysene		ND		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)

March 04, 2011 3:50:47PM

Client: EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn: Tom McElwee

Work Order: NUB3244
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 1027
Date Received: 02/19/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
271 Birch-1	NUB3244-01	02/14/11 16:00
271 Birch-2	NUB3244-02	02/15/11 10:45
275 Birch	NUB3244-03	02/16/11 11:45
292 Birch	NUB3244-04	02/16/11 15:30
284 Birch-1	NUB3244-05	02/17/11 11:45
284 Birch-2	NUB3244-06	02/17/11 15:00

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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South Carolina Certification Number: 84009

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

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All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Ken A. Hayes

Senior Project Manager

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUB3244-01 (271 Birch-1 - Soil) Sampled: 02/14/11 16:00										
General Chemistry Parameters										
% Dry Solids	82.9		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00101	0.00184	1	02/26/11 03:25	SW846 8260B	KxC	11B5164
Ethylbenzene	ND		mg/kg dry	0.000904	0.00184	1	02/26/11 03:25	SW846 8260B	KxC	11B5164
Naphthalene	ND		mg/kg dry	0.00157	0.00461	1	02/26/11 03:25	SW846 8260B	KxC	11B5164
Toluene	ND		mg/kg dry	0.000821	0.00184	1	02/26/11 03:25	SW846 8260B	KxC	11B5164
Xylenes, total	ND		mg/kg dry	0.00175	0.00461	1	02/26/11 03:25	SW846 8260B	KxC	11B5164
Surr: 1,2-Dichloroethane-d4 (67-138%)	89 %					1	02-26-11 03:25	SW846 8260B	KxC	11B5164
Surr: Dibromofluoromethane (75-125%)	89 %					1	02-26-11 03:25	SW846 8260B	KxC	11B5164
Surr: Toluene-d8 (76-129%)	106 %					1	02-26-11 03:25	SW846 8260B	KxC	11B5164
Surr: 4-Bromofluorobenzene (67-147%)	105 %					1	02-26-11 03:25	SW846 8260B	KxC	11B5164
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0169	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Acenaphthylene	ND		mg/kg dry	0.0241	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Anthracene	ND		mg/kg dry	0.0108	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	ND		mg/kg dry	0.0133	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	ND		mg/kg dry	0.00964	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	ND		mg/kg dry	0.0458	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0108	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	ND		mg/kg dry	0.0446	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Chrysene	ND		mg/kg dry	0.0373	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0181	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Fluoranthene	ND		mg/kg dry	0.0133	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Fluorene	ND		mg/kg dry	0.0241	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0373	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Naphthalene	ND		mg/kg dry	0.0169	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Phenanthrene	ND		mg/kg dry	0.0120	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Pyrene	ND		mg/kg dry	0.0277	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	ND		mg/kg dry	0.0145	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	ND		mg/kg dry	0.0253	0.0807	1	02/25/11 21:35	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	63 %					1	02-25-11 21:35	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	55 %					1	02-25-11 21:35	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	51 %					1	02-25-11 21:35	SW846 8270D	JLS	11B4858

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUB3244-02 (271 Birch-2 - Soil) Sampled: 02/15/11 10:45										
General Chemistry Parameters										
% Dry Solids	83.0		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00114	0.00207	1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Ethylbenzene	ND		mg/kg dry	0.00102	0.00207	1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Naphthalene	ND		mg/kg dry	0.00176	0.00518	1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Toluene	ND		mg/kg dry	0.000923	0.00207	1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Xylenes, total	ND		mg/kg dry	0.00197	0.00518	1	03/01/11 00:42	SW846 8260B	KxC	11B5954
Surr: 1,2-Dichloroethane-d4 (67-138%)	102 %					1	03 01 11 00:42	SW846 8260B	KxC	11B5954
Surr: Dibromofluoromethane (75-125%)	99 %					1	03 01 11 00:42	SW846 8260B	KxC	11B5954
Surr: Toluene-d8 (76-129%)	106 %					1	03 01 11 00:42	SW846 8260B	KxC	11B5954
Surr: 4-Bromofluorobenzene (67-147%)	101 %					1	03 01 11 00:42	SW846 8260B	KxC	11B5954
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0164	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Acenaphthylene	ND		mg/kg dry	0.0234	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Anthracene	ND		mg/kg dry	0.0105	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	ND		mg/kg dry	0.0128	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	ND		mg/kg dry	0.00934	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	ND		mg/kg dry	0.0444	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0105	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	ND		mg/kg dry	0.0432	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Chrysene	ND		mg/kg dry	0.0362	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0175	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Fluoranthene	ND		mg/kg dry	0.0128	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Fluorene	ND		mg/kg dry	0.0234	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0362	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Naphthalene	ND		mg/kg dry	0.0164	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Phenanthrene	ND		mg/kg dry	0.0117	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Pyrene	ND		mg/kg dry	0.0269	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	ND		mg/kg dry	0.0140	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	ND		mg/kg dry	0.0245	0.0783	1	02/25/11 21:57	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	66 %					1	02 25 11 21:57	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	62 %					1	02 25 11 21:57	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	59 %					1	02 25 11 21:57	SW846 8270D	JLS	11B4858

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUB3244-03 (275 Birch - Soil) Sampled: 02/16/11 11:45										
General Chemistry Parameters										
% Dry Solids	74.0		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00133	0.00241	1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Ethylbenzene	ND		mg/kg dry	0.00118	0.00241	1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Naphthalene	0.0174		mg/kg dry	0.00205	0.00603	1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Toluene	ND		mg/kg dry	0.00107	0.00241	1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Xylenes, total	0.00268	J	mg/kg dry	0.00229	0.00603	1	02/26/11 04:26	SW846 8260B	KxC	11B5164
Surr: 1,2-Dichloroethane-d4 (67-138%)	92 %					1	02 26 11 04:26	SW846 8260B	KxC	11B5164
Surr: Dibromofluoromethane (75-125%)	93 %					1	02 26 11 04:26	SW846 8260B	KxC	11B5164
Surr: Toluene-d8 (76-129%)	105 %					1	02 26 11 04:26	SW846 8260B	KxC	11B5164
Surr: 4-Bromofluorobenzene (67-147%)	103 %					1	02 26 11 04:26	SW846 8260B	KxC	11B5164
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0189	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Acenaphthylene	ND		mg/kg dry	0.0270	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Anthracene	0.234		mg/kg dry	0.0121	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	1.07		mg/kg dry	0.0148	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	0.472		mg/kg dry	0.0108	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	0.629		mg/kg dry	0.0513	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	0.225		mg/kg dry	0.0121	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	0.418		mg/kg dry	0.0499	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Chrysene	0.704		mg/kg dry	0.0418	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	0.0594	J	mg/kg dry	0.0202	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Fluoranthene	1.98		mg/kg dry	0.0148	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Fluorene	0.0864	J	mg/kg dry	0.0270	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	0.165		mg/kg dry	0.0418	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Naphthalene	ND		mg/kg dry	0.0189	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Phenanthrene	1.18		mg/kg dry	0.0135	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Pyrene	1.76		mg/kg dry	0.0310	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	ND		mg/kg dry	0.0162	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	ND		mg/kg dry	0.0283	0.0904	1	02/25/11 22:20	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	54 %					1	02 25 11 22:20	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	54 %					1	02 25 11 22:20	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	51 %					1	02 25 11 22:20	SW846 8270D	JLS	11B4858

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUB3244-04 (292 Birch - Soil) Sampled: 02/16/11 15:30										
General Chemistry Parameters										
% Dry Solids	73.4		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	0.00210	J	mg/kg dry	0.00121	0.00219	1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Ethylbenzene	0.163		mg/kg dry	0.00107	0.00219	1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Naphthalene	0.183		mg/kg dry	0.00186	0.00548	1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Toluene	0.00388		mg/kg dry	0.000976	0.00219	1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Xylenes, total	0.00804		mg/kg dry	0.00208	0.00548	1	03/01/11 01:12	SW846 8260B	KxC	11B5954
Surr: 1,2-Dichloroethane-d4 (67-138%)	107 %					1	03 01 11 01:12	SW846 8260B	KxC	11B5954
Surr: Dibromofluoromethane (75-125%)	100 %					1	03 01 11 01:12	SW846 8260B	KxC	11B5954
Surr: Toluene-d8 (76-129%)	124 %					1	03 01 11 01:12	SW846 8260B	KxC	11B5954
Surr: 4-Bromofluorobenzene (67-147%)	139 %					1	03 01 11 01:12	SW846 8260B	KxC	11B5954
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0185	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Acenaphthylene	ND		mg/kg dry	0.0265	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Anthracene	0.168		mg/kg dry	0.0119	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	ND		mg/kg dry	0.0146	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	ND		mg/kg dry	0.0106	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	ND		mg/kg dry	0.0503	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0119	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	ND		mg/kg dry	0.0490	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Chrysene	ND		mg/kg dry	0.0411	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0199	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Fluoranthene	ND		mg/kg dry	0.0146	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Fluorene	ND		mg/kg dry	0.0265	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0411	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Naphthalene	0.187		mg/kg dry	0.0185	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Phenanthrene	0.170		mg/kg dry	0.0132	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Pyrene	0.0570	J	mg/kg dry	0.0305	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	0.494		mg/kg dry	0.0159	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	0.373		mg/kg dry	0.0278	0.0887	1	02/25/11 22:42	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	65 %					1	02 25 11 22:42	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	57 %					1	02 25 11 22:42	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	54 %					1	02 25 11 22:42	SW846 8270D	JLS	11B4858

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUB3244-05 (284 Birch-1 - Soil) Sampled: 02/17/11 11:45										
General Chemistry Parameters										
% Dry Solids	83.2		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00104	0.00190	1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Ethylbenzene	0.00327		mg/kg dry	0.000930	0.00190	1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Naphthalene	0.00944		mg/kg dry	0.00161	0.00475	1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Toluene	ND		mg/kg dry	0.000845	0.00190	1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Xylenes, total	ND		mg/kg dry	0.00180	0.00475	1	02/26/11 05:27	SW846 8260B	KxC	11B5164
Surr: 1,2-Dichloroethane-d4 (67-138%)	90 %					1	02 26 11 05:27	SW846 8260B	KxC	11B5164
Surr: Dibromofluoromethane (75-125%)	92 %					1	02 26 11 05:27	SW846 8260B	KxC	11B5164
Surr: Toluene-d8 (76-129%)	112 %					1	02 26 11 05:27	SW846 8260B	KxC	11B5164
Surr: 4-Bromofluorobenzene (67-147%)	126 %					1	02 26 11 05:27	SW846 8260B	KxC	11B5164
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0166	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Acenaphthylene	ND		mg/kg dry	0.0237	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Anthracene	0.0674	J	mg/kg dry	0.0106	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	0.118		mg/kg dry	0.0130	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	0.0422	J	mg/kg dry	0.00946	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	0.0564	J	mg/kg dry	0.0449	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0106	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	0.0442	J	mg/kg dry	0.0438	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Chrysene	0.119		mg/kg dry	0.0367	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0177	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Fluoranthene	0.310		mg/kg dry	0.0130	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Fluorene	0.0911		mg/kg dry	0.0237	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0367	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Naphthalene	ND		mg/kg dry	0.0166	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Phenanthrene	0.361		mg/kg dry	0.0118	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Pyrene	0.250		mg/kg dry	0.0272	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	ND		mg/kg dry	0.0142	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	0.130		mg/kg dry	0.0248	0.0792	1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	62 %					1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	61 %					1	02/25/11 23:04	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	58 %					1	02/25/11 23:04	SW846 8270D	JLS	11B4858

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUB3244-06 (284 Birch-2 - Soil) Sampled: 02/17/11 15:00										
General Chemistry Parameters										
% Dry Solids	85.0		%	0.500	0.500	1	03/03/11 13:39	SW-846	AMS	11C0411
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.000969	0.00176	1	03/01/11 01:43	SW846 8260B	KxC	11B5954
Ethylbenzene	0.00174	J	mg/kg dry	0.000863	0.00176	1	03/01/11 01:43	SW846 8260B	KxC	11B5954
Naphthalene	0.00513		mg/kg dry	0.00150	0.00440	1	03/01/11 01:43	SW846 8260B	KxC	11B5954
Toluene	ND		mg/kg dry	0.000784	0.00176	1	03/01/11 01:43	SW846 8260B	KxC	11B5954
Xylenes, total	ND		mg/kg dry	0.00167	0.00440	1	03/01/11 01:43	SW846 8260B	KxC	11B5954
Surr: 1,2-Dichloroethane-d4 (67-138%)	96 %					1	03 01 11 01:43	SW846 8260B	KxC	11B5954
Surr: Dibromofluoromethane (75-125%)	94 %					1	03 01 11 01:43	SW846 8260B	KxC	11B5954
Surr: Toluene-d8 (76-129%)	111 %					1	03 01 11 01:43	SW846 8260B	KxC	11B5954
Surr: 4-Bromofluorobenzene (67-147%)	120 %					1	03 01 11 01:43	SW846 8260B	KxC	11B5954
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0162	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Accenaphthylene	ND		mg/kg dry	0.0231	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Anthracene	ND		mg/kg dry	0.0104	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Benzo (a) anthracene	ND		mg/kg dry	0.0127	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Benzo (a) pyrene	ND		mg/kg dry	0.00924	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Benzo (b) fluoranthene	ND		mg/kg dry	0.0439	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0104	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Benzo (k) fluoranthene	ND		mg/kg dry	0.0427	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Chrysene	ND		mg/kg dry	0.0358	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0173	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Fluoranthene	ND		mg/kg dry	0.0127	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Fluorene	ND		mg/kg dry	0.0231	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0358	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Naphthalene	ND		mg/kg dry	0.0162	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Phenanthrene	ND		mg/kg dry	0.0115	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Pyrene	ND		mg/kg dry	0.0266	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
1-Methylnaphthalene	ND		mg/kg dry	0.0139	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
2-Methylnaphthalene	ND		mg/kg dry	0.0242	0.0774	1	02/25/11 23:26	SW846 8270D	JLS	11B4858
Surr: Terphenyl-d14 (18-120%)	63 %					1	02 25 11 23:26	SW846 8270D	JLS	11B4858
Surr: 2-Fluorobiphenyl (14-120%)	56 %					1	02 25 11 23:26	SW846 8270D	JLS	11B4858
Surr: Nitrobenzene-d5 (17-120%)	57 %					1	02 25 11 23:26	SW846 8270D	JLS	11B4858

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	11B4858	NUB3244-01	30.04	1.00	02/24/11 12:30	CAG	EPA 3550C
SW846 8270D	11B4858	NUB3244-02	30.94	1.00	02/24/11 12:30	CAG	EPA 3550C
SW846 8270D	11B4858	NUB3244-03	30.05	1.00	02/24/11 12:30	CAG	EPA 3550C
SW846 8270D	11B4858	NUB3244-04	30.84	1.00	02/24/11 12:30	CAG	EPA 3550C
SW846 8270D	11B4858	NUB3244-05	30.48	1.00	02/24/11 12:30	CAG	EPA 3550C
SW846 8270D	11B4858	NUB3244-06	30.57	1.00	02/24/11 12:30	CAG	EPA 3550C
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	11B5164	NUB3244-01	6.54	5.00	02/14/11 16:00	CHH	EPA 5035
SW846 8260B	11B5164	NUB3244-02	5.66	5.00	02/15/11 10:45	CHH	EPA 5035
SW846 8260B	11B5954	NUB3244-02RE1	5.81	5.00	02/15/11 10:45	CHH	EPA 5035
SW846 8260B	11B5164	NUB3244-03	5.61	5.00	02/16/11 11:45	CHH	EPA 5035
SW846 8260B	11B5164	NUB3244-04	6.83	5.00	02/16/11 15:30	CHH	EPA 5035
SW846 8260B	11B5954	NUB3244-04RE1	6.21	5.00	02/16/11 15:30	CHH	EPA 5035
SW846 8260B	11B5164	NUB3244-05	6.33	5.00	02/17/11 11:45	CHH	EPA 5035
SW846 8260B	11B5164	NUB3244-06	6.33	5.00	02/17/11 15:00	CHH	EPA 5035
SW846 8260B	11B5954	NUB3244-06RE1	6.68	5.00	02/17/11 15:00	CHH	EPA 5035

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11B5164-BLK1						
Benzene	<0.00110		mg/kg wet	11B5164	11B5164-BLK1	02/25/11 22:50
Ethylbenzene	<0.000980		mg/kg wet	11B5164	11B5164-BLK1	02/25/11 22:50
Naphthalene	<0.00170		mg/kg wet	11B5164	11B5164-BLK1	02/25/11 22:50
Toluene	<0.000890		mg/kg wet	11B5164	11B5164-BLK1	02/25/11 22:50
Xylenes, total	<0.00190		mg/kg wet	11B5164	11B5164-BLK1	02/25/11 22:50
Surrogate: 1,2-Dichloroethane-d4	101%			11B5164	11B5164-BLK1	02/25/11 22:50
Surrogate: Dibromofluoromethane	96%			11B5164	11B5164-BLK1	02/25/11 22:50
Surrogate: Toluene-d8	106%			11B5164	11B5164-BLK1	02/25/11 22:50
Surrogate: 4-Bromofluorobenzene	104%			11B5164	11B5164-BLK1	02/25/11 22:50
11B5954-BLK1						
Benzene	<0.00110		mg/kg wet	11B5954	11B5954-BLK1	02/28/11 23:41
Ethylbenzene	<0.000980		mg/kg wet	11B5954	11B5954-BLK1	02/28/11 23:41
Naphthalene	<0.00170		mg/kg wet	11B5954	11B5954-BLK1	02/28/11 23:41
Toluene	<0.000890		mg/kg wet	11B5954	11B5954-BLK1	02/28/11 23:41
Xylenes, total	<0.00190		mg/kg wet	11B5954	11B5954-BLK1	02/28/11 23:41
Surrogate: 1,2-Dichloroethane-d4	105%			11B5954	11B5954-BLK1	02/28/11 23:41
Surrogate: Dibromofluoromethane	100%			11B5954	11B5954-BLK1	02/28/11 23:41
Surrogate: Toluene-d8	105%			11B5954	11B5954-BLK1	02/28/11 23:41
Surrogate: 4-Bromofluorobenzene	104%			11B5954	11B5954-BLK1	02/28/11 23:41
11B5954-BLK2						
Benzene	<0.0550		mg/kg wet	11B5954	11B5954-BLK2	03/01/11 00:11
Ethylbenzene	<0.0490		mg/kg wet	11B5954	11B5954-BLK2	03/01/11 00:11
Naphthalene	<0.0850		mg/kg wet	11B5954	11B5954-BLK2	03/01/11 00:11
Toluene	<0.0445		mg/kg wet	11B5954	11B5954-BLK2	03/01/11 00:11
Xylenes, total	<0.0950		mg/kg wet	11B5954	11B5954-BLK2	03/01/11 00:11
Surrogate: 1,2-Dichloroethane-d4	92%			11B5954	11B5954-BLK2	03/01/11 00:11
Surrogate: Dibromofluoromethane	95%			11B5954	11B5954-BLK2	03/01/11 00:11
Surrogate: Toluene-d8	110%			11B5954	11B5954-BLK2	03/01/11 00:11
Surrogate: 4-Bromofluorobenzene	104%			11B5954	11B5954-BLK2	03/01/11 00:11
Polyaromatic Hydrocarbons by EPA 8270D						
11B4858-BLK1						
Acenaphthene	<0.0140		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Acenaphthylene	<0.0200		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Anthracene	<0.00900		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Benzo (a) anthracene	<0.0110		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Benzo (a) pyrene	<0.00800		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Benzo (b) fluoranthene	<0.0380		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Benzo (g,h,i) perylene	<0.00900		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Benzo (k) fluoranthene	<0.0370		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D						
11B4858-BLK1						
Chrysene	<0.0310		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Dibenz (a,h) anthracene	<0.0150		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Fluoranthene	<0.0110		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Fluorene	<0.0200		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Naphthalene	<0.0140		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Phenanthrene	<0.0100		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Pyrene	<0.0230		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
1-Methylnaphthalene	<0.0120		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
2-Methylnaphthalene	<0.0210		mg/kg wet	11B4858	11B4858-BLK1	02/25/11 20:06
Surrogate: Terphenyl-d14	67%			11B4858	11B4858-BLK1	02/25/11 20:06
Surrogate: 2-Fluorobiphenyl	65%			11B4858	11B4858-BLK1	02/25/11 20:06
Surrogate: Nitrobenzene-d5	63%			11B4858	11B4858-BLK1	02/25/11 20:06

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NUB3244
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 02/19/11 08:35

PROJECT QUALITY CONTROL DATA

Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
11C0411-DUP1										
% Dry Solids	53.7	49.6		%	8	20	11C0411	NUB3035-05		03/03/11 13:39

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11B5164-BS1								
Benzene	50.0	46.5		ug/kg	93%	78 - 126	11B5164	02/25/11 21:47
Ethylbenzene	50.0	48.3		ug/kg	97%	79 - 130	11B5164	02/25/11 21:47
Naphthalene	50.0	47.5		ug/kg	95%	72 - 150	11B5164	02/25/11 21:47
Toluene	50.0	47.4		ug/kg	95%	76 - 126	11B5164	02/25/11 21:47
Xylenes, total	150	145		ug/kg	97%	80 - 130	11B5164	02/25/11 21:47
Surrogate: 1,2-Dichloroethane-d4	50.0	53.8			108%	67 - 138	11B5164	02/25/11 21:47
Surrogate: Dibromofluoromethane	50.0	49.3			99%	75 - 125	11B5164	02/25/11 21:47
Surrogate: Toluene-d8	50.0	51.5			103%	76 - 129	11B5164	02/25/11 21:47
Surrogate: 4-Bromofluorobenzene	50.0	52.0			104%	67 - 147	11B5164	02/25/11 21:47
11B5954-BS1								
Benzene	50.0	50.5		ug/kg	101%	78 - 126	11B5954	02/28/11 22:40
Ethylbenzene	50.0	54.6		ug/kg	109%	79 - 130	11B5954	02/28/11 22:40
Naphthalene	50.0	52.2		ug/kg	104%	72 - 150	11B5954	02/28/11 22:40
Toluene	50.0	52.6		ug/kg	105%	76 - 126	11B5954	02/28/11 22:40
Xylenes, total	150	165		ug/kg	110%	80 - 130	11B5954	02/28/11 22:40
Surrogate: 1,2-Dichloroethane-d4	50.0	55.5			111%	67 - 138	11B5954	02/28/11 22:40
Surrogate: Dibromofluoromethane	50.0	49.3			99%	75 - 125	11B5954	02/28/11 22:40
Surrogate: Toluene-d8	50.0	52.8			106%	76 - 129	11B5954	02/28/11 22:40
Surrogate: 4-Bromofluorobenzene	50.0	51.9			104%	67 - 147	11B5954	02/28/11 22:40
Polyaromatic Hydrocarbons by EPA 8270D								
11B4858-BS1								
Acenaphthene	1.67	1.19		mg/kg wet	71%	49 - 120	11B4858	02/25/11 20:29
Acenaphthylene	1.67	1.21		mg/kg wet	72%	52 - 120	11B4858	02/25/11 20:29
Anthracene	1.67	1.32		mg/kg wet	79%	58 - 120	11B4858	02/25/11 20:29
Benzo (a) anthracene	1.67	1.26		mg/kg wet	75%	57 - 120	11B4858	02/25/11 20:29
Benzo (a) pyrene	1.67	1.27		mg/kg wet	76%	55 - 120	11B4858	02/25/11 20:29
Benzo (b) fluoranthene	1.67	1.30		mg/kg wet	78%	51 - 123	11B4858	02/25/11 20:29
Benzo (g,h,i) perylene	1.67	1.27		mg/kg wet	76%	49 - 121	11B4858	02/25/11 20:29
Benzo (k) fluoranthene	1.67	1.23		mg/kg wet	74%	42 - 129	11B4858	02/25/11 20:29
Chrysene	1.67	1.27		mg/kg wet	76%	55 - 120	11B4858	02/25/11 20:29
Dibenz (a,h) anthracene	1.67	1.27		mg/kg wet	76%	50 - 123	11B4858	02/25/11 20:29
Fluoranthene	1.67	1.27		mg/kg wet	76%	58 - 120	11B4858	02/25/11 20:29
Fluorene	1.67	1.24		mg/kg wet	75%	54 - 120	11B4858	02/25/11 20:29
Indeno (1,2,3-cd) pyrene	1.67	1.25		mg/kg wet	75%	50 - 122	11B4858	02/25/11 20:29
Naphthalene	1.67	1.10		mg/kg wet	66%	28 - 120	11B4858	02/25/11 20:29
Phenanthrene	1.67	1.31		mg/kg wet	78%	56 - 120	11B4858	02/25/11 20:29
Pyrene	1.67	1.32		mg/kg wet	79%	56 - 120	11B4858	02/25/11 20:29
1-Methylnaphthalene	1.67	0.986		mg/kg wet	59%	36 - 120	11B4858	02/25/11 20:29
2-Methylnaphthalene	1.67	1.10		mg/kg wet	66%	36 - 120	11B4858	02/25/11 20:29

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NUB3244
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 02/19/11 08:35

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D								
11B4858-BS1								
Surrogate: Terphenyl-d14	1.67	1.11			66%	18 - 120	11B4858	02/25/11 20:29
Surrogate: 2-Fluorobiphenyl	1.67	1.10			66%	14 - 120	11B4858	02/25/11 20:29
Surrogate: Nitrobenzene-d5	1.67	0.973			58%	17 - 120	11B4858	02/25/11 20:29

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

PROJECT QUALITY CONTROL DATA

Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11B5164-MS1										
Benzene	ND	0.0415		mg/kg dry	0.0488	85%	42 - 141	11B5164	NUB3432-07	02/26/11 06:29
Ethylbenzene	ND	0.0441		mg/kg dry	0.0488	90%	21 - 165	11B5164	NUB3432-07	02/26/11 06:29
Naphthalene	ND	0.0110		mg/kg dry	0.0488	23%	10 - 160	11B5164	NUB3432-07	02/26/11 06:29
Toluene	ND	0.0456		mg/kg dry	0.0488	93%	45 - 145	11B5164	NUB3432-07	02/26/11 06:29
Xylenes, total	ND	0.126		mg/kg dry	0.146	86%	31 - 159	11B5164	NUB3432-07	02/26/11 06:29
Surrogate: 1,2-Dichloroethane-d4		49.3		ug/kg	50.0	99%	67 - 138	11B5164	NUB3432-07	02/26/11 06:29
Surrogate: Dibromofluoromethane		47.6		ug/kg	50.0	95%	75 - 125	11B5164	NUB3432-07	02/26/11 06:29
Surrogate: Toluene-d8		56.2		ug/kg	50.0	112%	76 - 129	11B5164	NUB3432-07	02/26/11 06:29
Surrogate: 4-Bromofluorobenzene		59.8		ug/kg	50.0	120%	67 - 147	11B5164	NUB3432-07	02/26/11 06:29
11B5954-MS1										
Benzene	ND	0.0415		mg/kg dry	0.0580	72%	42 - 141	11B5954	NUB3481-01	03/01/11 20:41
Ethylbenzene	ND	0.0488		mg/kg dry	0.0580	84%	21 - 165	11B5954	NUB3481-01	03/01/11 20:41
Naphthalene	0.00209	0.0353		mg/kg dry	0.0580	57%	10 - 160	11B5954	NUB3481-01	03/01/11 20:41
Toluene	ND	0.0479		mg/kg dry	0.0580	83%	45 - 145	11B5954	NUB3481-01	03/01/11 20:41
Xylenes, total	ND	0.149		mg/kg dry	0.174	86%	31 - 159	11B5954	NUB3481-01	03/01/11 20:41
Surrogate: 1,2-Dichloroethane-d4		44.5		ug/kg	50.0	89%	67 - 138	11B5954	NUB3481-01	03/01/11 20:41
Surrogate: Dibromofluoromethane		45.4		ug/kg	50.0	91%	75 - 125	11B5954	NUB3481-01	03/01/11 20:41
Surrogate: Toluene-d8		54.9		ug/kg	50.0	110%	76 - 129	11B5954	NUB3481-01	03/01/11 20:41
Surrogate: 4-Bromofluorobenzene		51.9		ug/kg	50.0	104%	67 - 147	11B5954	NUB3481-01	03/01/11 20:41
Polyaromatic Hydrocarbons by EPA 8270D										
11B4858-MS1										
Acenaphthene	ND	1.26		mg/kg dry	1.95	65%	42 - 120	11B4858	NUB3244-01	02/25/11 20:51
Acenaphthylene	ND	1.26		mg/kg dry	1.95	65%	32 - 120	11B4858	NUB3244-01	02/25/11 20:51
Anthracene	ND	1.38		mg/kg dry	1.95	71%	10 - 200	11B4858	NUB3244-01	02/25/11 20:51
Benzo (a) anthracene	ND	1.36		mg/kg dry	1.95	70%	41 - 120	11B4858	NUB3244-01	02/25/11 20:51
Benzo (a) pyrene	ND	1.36		mg/kg dry	1.95	69%	33 - 121	11B4858	NUB3244-01	02/25/11 20:51
Benzo (b) fluoranthene	ND	1.34		mg/kg dry	1.95	68%	26 - 137	11B4858	NUB3244-01	02/25/11 20:51
Benzo (g,h,i) perylene	ND	1.36		mg/kg dry	1.95	70%	21 - 124	11B4858	NUB3244-01	02/25/11 20:51
Benzo (k) fluoranthene	ND	1.39		mg/kg dry	1.95	71%	14 - 140	11B4858	NUB3244-01	02/25/11 20:51
Chrysene	ND	1.36		mg/kg dry	1.95	70%	28 - 123	11B4858	NUB3244-01	02/25/11 20:51
Dibenz (a,h) anthracene	ND	1.37		mg/kg dry	1.95	70%	25 - 127	11B4858	NUB3244-01	02/25/11 20:51
Fluoranthene	ND	1.36		mg/kg dry	1.95	70%	38 - 120	11B4858	NUB3244-01	02/25/11 20:51
Fluorene	ND	1.33		mg/kg dry	1.95	68%	41 - 120	11B4858	NUB3244-01	02/25/11 20:51
Indeno (1,2,3-cd) pyrene	ND	1.36		mg/kg dry	1.95	69%	25 - 123	11B4858	NUB3244-01	02/25/11 20:51
Naphthalene	ND	1.17		mg/kg dry	1.95	60%	25 - 120	11B4858	NUB3244-01	02/25/11 20:51
Phenanthrene	ND	1.40		mg/kg dry	1.95	72%	37 - 120	11B4858	NUB3244-01	02/25/11 20:51

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D										
11B4858-MS1										
Pyrene	ND	1.42		mg/kg dry	1.95	73%	29 - 125	11B4858	NUB3244-01	02/25/11 20:51
1-Methylnaphthalene	ND	1.05		mg/kg dry	1.95	54%	19 - 120	11B4858	NUB3244-01	02/25/11 20:51
2-Methylnaphthalene	ND	1.15		mg/kg dry	1.95	59%	11 - 120	11B4858	NUB3244-01	02/25/11 20:51
<i>Surrogate: Terphenyl-d14</i>		1.18		mg/kg dry	1.95	60%	18 - 120	11B4858	NUB3244-01	02/25/11 20:51
<i>Surrogate: 2-Fluorobiphenyl</i>		1.12		mg/kg dry	1.95	57%	14 - 120	11B4858	NUB3244-01	02/25/11 20:51
<i>Surrogate: Nitrobenzene-d5</i>		1.03		mg/kg dry	1.95	53%	17 - 120	11B4858	NUB3244-01	02/25/11 20:51

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

PROJECT QUALITY CONTROL DATA
Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
11B5164-MSD1												
Benzene	ND	0.0472		mg/kg dry	0.0538	88%	42 - 141	13	50	11B5164	NUB3432-07	02/26/11 06:59
Ethylbenzene	ND	0.0500		mg/kg dry	0.0538	93%	21 - 165	12	50	11B5164	NUB3432-07	02/26/11 06:59
Naphthalene	ND	0.0119		mg/kg dry	0.0538	22%	10 - 160	8	50	11B5164	NUB3432-07	02/26/11 06:59
Toluene	ND	0.0533		mg/kg dry	0.0538	99%	45 - 145	16	50	11B5164	NUB3432-07	02/26/11 06:59
Xylenes, total	ND	0.143		mg/kg dry	0.161	88%	31 - 159	12	50	11B5164	NUB3432-07	02/26/11 06:59
Surrogate: 1,2-Dichloroethane-d4		42.0		ug/kg	50.0	84%	67 - 138			11B5164	NUB3432-07	02/26/11 06:59
Surrogate: Dibromofluoromethane		44.5		ug/kg	50.0	89%	75 - 125			11B5164	NUB3432-07	02/26/11 06:59
Surrogate: Toluene-d8		59.6		ug/kg	50.0	119%	76 - 129			11B5164	NUB3432-07	02/26/11 06:59
Surrogate: 4-Bromofluorobenzene		64.7		ug/kg	50.0	129%	67 - 147			11B5164	NUB3432-07	02/26/11 06:59
11B5954-MSD1												
Benzene	ND	0.0344		mg/kg dry	0.0532	65%	42 - 141	19	50	11B5954	NUB3481-01	03/01/11 21:11
Ethylbenzene	ND	0.0376		mg/kg dry	0.0532	71%	21 - 165	26	50	11B5954	NUB3481-01	03/01/11 21:11
Naphthalene	0.00209	0.0262		mg/kg dry	0.0532	45%	10 - 160	30	50	11B5954	NUB3481-01	03/01/11 21:11
Toluene	ND	0.0377		mg/kg dry	0.0532	71%	45 - 145	24	50	11B5954	NUB3481-01	03/01/11 21:11
Xylenes, total	ND	0.114		mg/kg dry	0.160	71%	31 - 159	27	50	11B5954	NUB3481-01	03/01/11 21:11
Surrogate: 1,2-Dichloroethane-d4		46.5		ug/kg	50.0	93%	67 - 138			11B5954	NUB3481-01	03/01/11 21:11
Surrogate: Dibromofluoromethane		47.8		ug/kg	50.0	96%	75 - 125			11B5954	NUB3481-01	03/01/11 21:11
Surrogate: Toluene-d8		52.6		ug/kg	50.0	105%	76 - 129			11B5954	NUB3481-01	03/01/11 21:11
Surrogate: 4-Bromofluorobenzene		53.1		ug/kg	50.0	106%	67 - 147			11B5954	NUB3481-01	03/01/11 21:11
Polyaromatic Hydrocarbons by EPA 8270D												
11B4858-MSD1												
Acenaphthene	ND	1.24		mg/kg dry	2.00	62%	42 - 120	2	40	11B4858	NUB3244-01	02/25/11 21:13
Acenaphthylene	ND	1.26		mg/kg dry	2.00	63%	32 - 120	0.6	30	11B4858	NUB3244-01	02/25/11 21:13
Anthracene	ND	1.38		mg/kg dry	2.00	69%	10 - 200	0.02	50	11B4858	NUB3244-01	02/25/11 21:13
Benzo (a) anthracene	ND	1.35		mg/kg dry	2.00	67%	41 - 120	1	30	11B4858	NUB3244-01	02/25/11 21:13
Benzo (a) pyrene	ND	1.32		mg/kg dry	2.00	66%	33 - 121	3	33	11B4858	NUB3244-01	02/25/11 21:13
Benzo (b) fluoranthene	ND	1.43		mg/kg dry	2.00	72%	26 - 137	7	42	11B4858	NUB3244-01	02/25/11 21:13
Benzo (g,h,i) perylene	ND	1.34		mg/kg dry	2.00	67%	21 - 124	1	32	11B4858	NUB3244-01	02/25/11 21:13
Benzo (k) fluoranthene	ND	1.22		mg/kg dry	2.00	61%	14 - 140	13	39	11B4858	NUB3244-01	02/25/11 21:13
Chrysene	ND	1.36		mg/kg dry	2.00	68%	28 - 123	0.5	34	11B4858	NUB3244-01	02/25/11 21:13
Dibenz (a,h) anthracene	ND	1.33		mg/kg dry	2.00	67%	25 - 127	3	31	11B4858	NUB3244-01	02/25/11 21:13
Fluoranthene	ND	1.34		mg/kg dry	2.00	67%	38 - 120	1	35	11B4858	NUB3244-01	02/25/11 21:13
Fluorene	ND	1.31		mg/kg dry	2.00	65%	41 - 120	2	37	11B4858	NUB3244-01	02/25/11 21:13
Indeno (1,2,3-cd) pyrene	ND	1.32		mg/kg dry	2.00	66%	25 - 123	3	32	11B4858	NUB3244-01	02/25/11 21:13
Naphthalene	ND	1.18		mg/kg dry	2.00	59%	25 - 120	0.9	42	11B4858	NUB3244-01	02/25/11 21:13
Phenanthrene	ND	1.39		mg/kg dry	2.00	70%	37 - 120	0.4	32	11B4858	NUB3244-01	02/25/11 21:13
Pyrene	ND	1.41		mg/kg dry	2.00	70%	29 - 125	1	40	11B4858	NUB3244-01	02/25/11 21:13
1-Methylnaphthalene	ND	1.06		mg/kg dry	2.00	53%	19 - 120	0.6	45	11B4858	NUB3244-01	02/25/11 21:13
2-Methylnaphthalene	ND	1.16		mg/kg dry	2.00	58%	11 - 120	0.9	50	11B4858	NUB3244-01	02/25/11 21:13

Client EEG - Small Business Group, Inc. (2449)
 10179 Highway 78
 Ladson, SC 29456
 Attn Tom McElwee

Work Order: NUB3244
 Project Name: Laurel Bay Housing Project
 Project Number: [none]
 Received: 02/19/11 08:35

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D											
11B4858-MSD1											
<i>Surrogate: Terphenyl-d14</i>		1.18		mg/kg dry	2.00	59%	18 - 120		11B4858	NUB3244-01	02/25/11 21:13
<i>Surrogate: 2-Fluorobiphenyl</i>		1.13		mg/kg dry	2.00	56%	14 - 120		11B4858	NUB3244-01	02/25/11 21:13
<i>Surrogate: Nitrobenzene-d5</i>		0.995		mg/kg dry	2.00	50%	17 - 120		11B4858	NUB3244-01	02/25/11 21:13

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NUB3244
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 02/19/11 08:35

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	South Carolina
SW846 8260B	Soil	N/A	X	X
SW846 8270D	Soil		X	X
SW-846	Soil			

Client EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn Tom McElwee

Work Order: NUB3244
Project Name: Laurel Bay Housing Project
Project Number: [none]
Received: 02/19/11 08:35

DATA QUALIFIERS AND DEFINITIONS

- J** Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
- ND** Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

ATTACHMENT A



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of 1					
3. Generator's Mailing Address: MCAS, BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29907			Generator's Site Address (If different than mailing):			A. Manifest Number WMNA 00316807					
4. Generator's Phone 843-228-6461			B. State Generator's ID								
5. Transporter 1 Company Name EEG, INC.			6. US EPA ID Number		C. State Transporter's ID						
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone 843-879-0411						
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY ROAD RIDGELAND, SC 29936			10. US EPA ID Number		E. State Transporter's ID						
					F. Transporter's Phone						
					G. State Facility ID						
					H. State Facility Phone 843-987-4643						
GENERATOR	11. Description of Waste Materials				12. Containers		13. Total	14. Unit	I. Misc Comments		
					No.	Type	Quantity	Wt./Vol.			
	a. HEATING OIL TANKS FILLED WITH SAND WM Profile # 102655SC						10.97				
	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 UST's from: 1) 271 Beech-2 ✓ 2) 257 Beech-2 ✓ 3) 256 Beech ✓ 4) 292 Birch ✓ 5) 284 Birch-2 ✓ 6) 224 Cypress ✓											
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 Charles H. Herron				Signature "On behalf of" <i>Charles H. Herron</i>				Month 02	Day 28	Year 11	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials										
	Printed Name James Baldwin				Signature <i>James Baldwin</i>				Month 3	Day 2	Year 11
	18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed Name				Signature				Month	Day	Year	
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 Tom Co Field				Signature <i>Tom Co Field</i>				Month 3	Day 2	Year 11

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY

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 271 Birch-1, 271 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

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. W. O'Neil / 4/13/11
(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 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	