SUMMARY REPORT

543 WEST LAUREL BAY BOULEVARD (FORMERLY 504 WEST LAUREL BAY BOULEVARD)

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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Appendices

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 543 West Laurel Bay Boulevard (Formerly 504 West Laurel Bay Boulevard). 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 543 West Laurel Bay Boulevard (Formerly 504 West Laurel Bay Boulevard). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 504 West Laurel Bay Boulevard* (MCAS Beaufort, 2009). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On June 30, 2009, a single 280 gallon heating oil UST was removed from the back yard adjacent to the rear patio at 543 West Laurel Bay Boulevard (Formerly 504 West Laurel Bay Boulevard). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 6'2" bgs and a single soil sample was

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

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 543 West Laurel Bay Boulevard (Formerly 504 West Laurel Bay Boulevard) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 543 West Laurel Bay Boulevard (Formerly 504 West Laurel Bay Boulevard). This NFA determination was obtained in a letter dated February 17, 2010. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2009. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 504 West Laurel Bay Boulevard, Laurel Bay Military Housing Area*, October 2009.

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

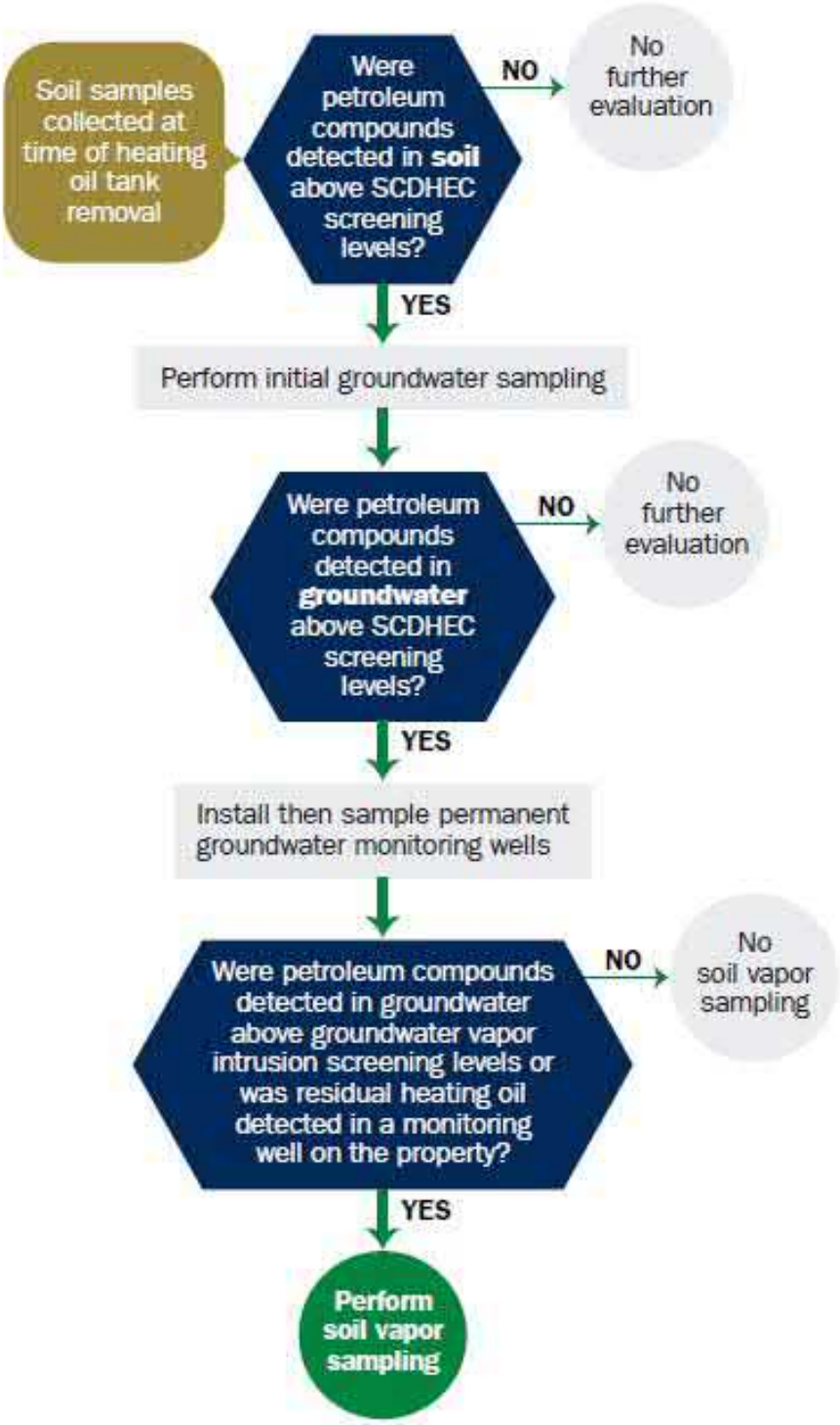
Table 1
Laboratory Analytical Results - Soil
543 West Laurel Bay Boulevard (Formerly 504 West Laurel Bay Boulevard)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Results Sample Collected 06/30/09
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	ND
Toluene	0.627	ND
Xylenes, Total	13.01	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.66	ND
Benzo(b)fluoranthene	0.66	ND
Benzo(k)fluoranthene	0.66	ND
Chrysene	0.66	ND
Dibenz(a,h)anthracene	0.66	ND

Notes:
[1] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.0 and 1.1 (SCDHEC, May 2001 and SCDHEC, February 2011) 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

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

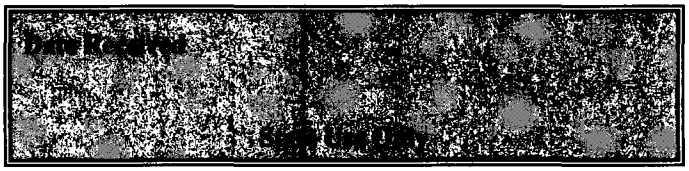
Appendix B
UST Assessment Report

CDM - AECOM
Multimedia Joint Venture

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report



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

504 Laurel Bay Blvd., 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

504LaurelBay				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
6'2"				
No				
No				
Removed				
6/30/09				
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 504LaurelBay 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)
UST 504LaurelBay had been 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 through out the tank.

VII. PIPING INFORMATION

504 LaurelBay				
Steel & Copper				
N/A				
N/A				
Suction				
Yes				
Yes				
No				
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.

Corrosion and pitting were found on the surface of the steel vent pipe. Copper supply and return lines 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 96012001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
504 LaurelB	Excav at fill end	Soil	Sandy	6'2"	6/30/09 1430 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? 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 and water. 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)

504 LAUREL BAY BLVD.

0 125 250 500 750 1,000 Feet

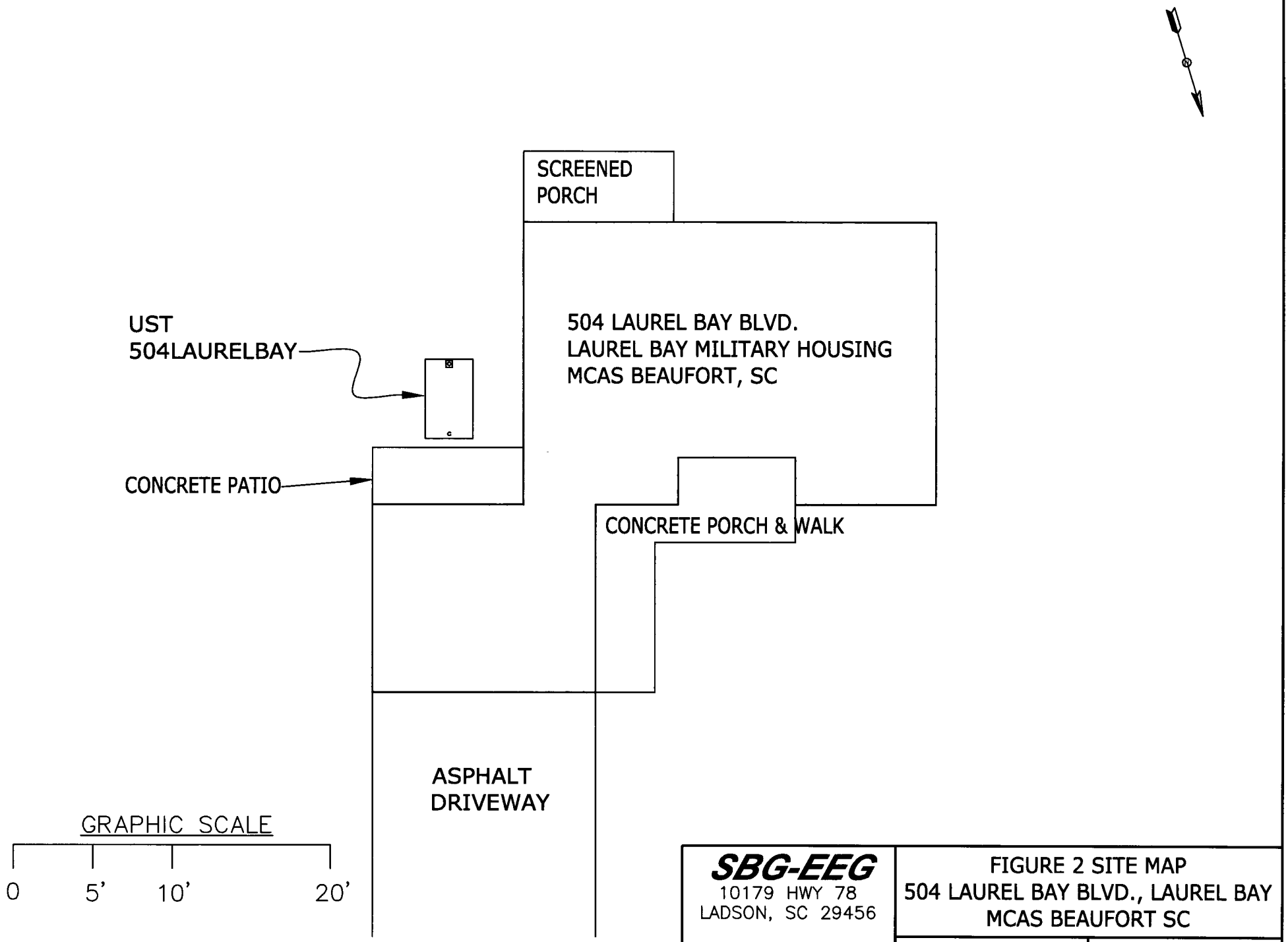
SBG-EEG, Inc.
Small Business Group, Inc.
10179 Hwy 78
Ladson, SC 29456

Ph. (843) 879-0400

Drawn By: L. DiAsio

Dwg Date: July 2009

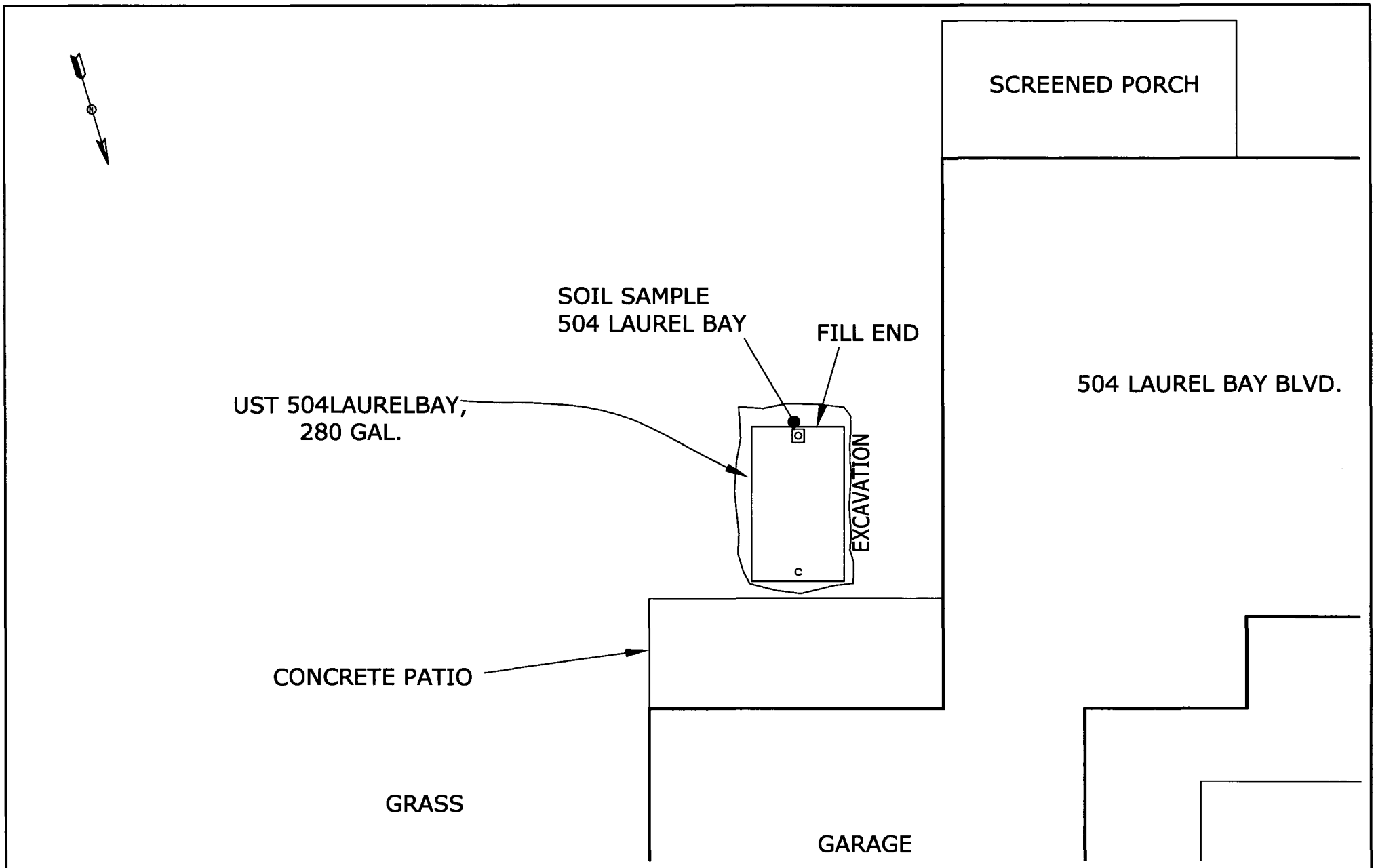
FIGURE 1: LOCATION MAP
504 LAUREL BAY BLVD., LAUREL BAY
MCAS BEAUFORT SC



SBG-EEG
10179 HWY 78
LADSON, SC 29456
ph. (843) 879-0400

FIGURE 2 SITE MAP
504 LAUREL BAY BLVD., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE JULY 2009



UST 504LAURELBAY WAS
38" BELOW GRADE.

SBG-EEG
10179 HWY 78
LADSON, SC 29456
ph. (843) 879-0400

FIGURE 3 UST SAMPLE LOCATIONS
504 LAUREL BAY BLVD., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE JULY 2009

Picture 1: Location of UST 504Laurelbay prior to excavation.

Picture 2: UST 504Laurelbay site after completion of the job.

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	504LaurelBay						
Benzene	ND						
Toluene	ND						
Ethylbenzene	ND						
Xylenes	ND						
Naphthalene	ND						
Benzo (a) anthracene	ND						
Benzo (b) fluoranthene	ND						
Benzo (k) fluoranthene	ND						
Chrysene	ND						
Dibenz (a, h) anthracene	ND						
TPH (EPA 3550)							

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

(Attach Certified Analytical Results and Chain-of-Custody Here)
(Please see Form #4)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

July 20, 2009 5:09:46PM

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

Work Order: NSG0282
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 08087
Date Received: 07/03/09

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
1170 Jasmine	NSG0282-01	06/29/09 10:35
480 Laurel Bay	NSG0282-02	06/29/09 14:30
484 Laurel Bay	NSG0282-03	06/29/09 14:40
492 Laurel Bay	NSG0282-04	06/30/09 10:20
488 Laurel Bay	NSG0282-05	06/30/09 09:45
504 Laurel Bay	NSG0282-06	06/30/09 14:30
500 Laurel Bay	NSG0282-07	06/30/09 14:00

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.

Additional Laboratory Comments:
The methanol vial for sample NSG0282-01 had lost all the methanol prior to sample receipt. As a result, we were unable to perform analysis on a dilution greater than 1X. The data was flagged accordingly.
South Carolina Certification Number: 84009001

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

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

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-01 (1170 Jasmine - Soil) Sampled: 06/29/09 10:35								
General Chemistry Parameters								
% Dry Solids	**79.1**		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	**0.0194**		mg/kg dry	0.00228	1	07/08/09 02:27	SW846 8260B	9070447
Ethylbenzene	**2.41**	E, S10	mg/kg dry	0.00228	1	07/08/09 02:27	SW846 8260B	9070447
Naphthalene	**1.23**	E, S10	mg/kg dry	0.00570	1	07/08/09 02:27	SW846 8260B	9070447
Toluene	**0.0364**		mg/kg dry	0.00228	1	07/08/09 02:27	SW846 8260B	9070447
Xylenes, total	**7.42**	E, S10	mg/kg dry	0.00570	1	07/08/09 02:27	SW846 8260B	9070447
Surr: 1,2-Dichloroethane-d4 (67-138%)	*97 %*					*07/08/09 02:27*	*SW846 8260B*	*9070447*
Surr: Dibromofluoromethane (75-125%)	*98 %*					*07/08/09 02:27*	*SW846 8260B*	*9070447*
Surr: Toluene-d8 (76-129%)	*543 %*	*ZX*				*07/08/09 02:27*	*SW846 8260B*	*9070447*
Surr: 4-Bromofluorobenzene (67-147%)	*414 %*	*ZX*				*07/08/09 02:27*	*SW846 8260B*	*9070447*
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Anthracene	**1.44**		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Benzo (a) pyrene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Benzo (b) fluoranthene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Benzo (k) fluoranthene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Chrysene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Fluoranthene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Fluorene	**7.83**		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Naphthalene	**16.0**		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Phenanthrene	**18.0**		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
Pyrene	**1.32**		mg/kg dry	0.839	10	07/11/09 18:31	SW846 8270D	9071105
1-Methylnaphthalene	**45.4**		mg/kg dry	8.39	100	07/11/09 18:53	SW846 8270D	9071105
2-Methylnaphthalene	**67.0**		mg/kg dry	8.39	100	07/11/09 18:53	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	*85 %*					*07/11/09 18:31*	*SW846 8270D*	*9071105*
Surr: 2-Fluorobiphenyl (14-120%)	*77 %*					*07/11/09 18:31*	*SW846 8270D*	*9071105*
Surr: Nitrobenzene-d5 (17-120%)	*60 %*					*07/11/09 18:31*	*SW846 8270D*	*9071105*

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-02 (480 Laurel Bay - Soil) Sampled: 06/29/09 14:30								
General Chemistry Parameters								
% Dry Solids	**85.8**		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00208	1	07/08/09 02:57	SW846 8260B	9070447
Ethylbenzene	**0.431**		mg/kg dry	0.120	50	07/08/09 16:39	SW846 8260B	9070955
Naphthalene	**9.62**		mg/kg dry	0.300	50	07/08/09 16:39	SW846 8260B	9070955
Toluene	**0.00210**		mg/kg dry	0.00208	1	07/08/09 02:57	SW846 8260B	9070447
Xylenes, total	**0.949**		mg/kg dry	0.300	50	07/08/09 16:39	SW846 8260B	9070955
Surr: 1,2-Dichloroethane-d4 (67-138%)	*98 %*					*07/08/09 02:57*	*SW846 8260B*	*9070447*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*105 %*					*07/08/09 16:39*	*SW846 8260B*	*9070955*
Surr: Dibromofluoromethane (75-125%)	*93 %*					*07/08/09 02:57*	*SW846 8260B*	*9070447*
Surr: Dibromofluoromethane (75-125%)	*101 %*					*07/08/09 16:39*	*SW846 8260B*	*9070955*
Surr: Toluene-d8 (76-129%)	*172 %*	*ZX*				*07/08/09 02:57*	*SW846 8260B*	*9070447*
Surr: Toluene-d8 (76-129%)	*94 %*					*07/08/09 16:39*	*SW846 8260B*	*9070955*
Surr: 4-Bromofluorobenzene (67-147%)	*259 %*	*ZX*				*07/08/09 02:57*	*SW846 8260B*	*9070447*
Surr: 4-Bromofluorobenzene (67-147%)	*120 %*					*07/08/09 16:39*	*SW846 8260B*	*9070955*
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Anthracene	**1.61**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Benzo (a) anthracene	**2.86**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Benzo (a) pyrene	**1.36**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Benzo (b) fluoranthene	**1.75**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Benzo (k) fluoranthene	**0.915**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Chrysene	**2.36**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Fluoranthene	**8.09**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Fluorene	**4.41**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Naphthalene	**3.76**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Phenanthrene	**11.7**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Pyrene	**7.78**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
1-Methylnaphthalene	**28.1**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
2-Methylnaphthalene	**38.5**		mg/kg dry	0.770	10	07/11/09 19:14	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	*74 %*					*07/11/09 19:14*	*SW846 8270D*	*9071105*
Surr: 2-Fluorobiphenyl (14-120%)	*68 %*					*07/11/09 19:14*	*SW846 8270D*	*9071105*
Surr: Nitrobenzene-d5 (17-120%)	*49 %*					*07/11/09 19:14*	*SW846 8270D*	*9071105*

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-03 (484 Laurel Bay - Soil) Sampled: 06/29/09 14:40								
General Chemistry Parameters								
% Dry Solids	**87.8**		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00205	1	07/08/09 14:00	SW846 8260B	9070955
Ethylbenzene	ND		mg/kg dry	0.00205	1	07/08/09 14:00	SW846 8260B	9070955
Naphthalene	ND		mg/kg dry	0.00513	1	07/08/09 14:00	SW846 8260B	9070955
Toluene	ND		mg/kg dry	0.00205	1	07/08/09 14:00	SW846 8260B	9070955
Xylenes, total	ND		mg/kg dry	0.00513	1	07/08/09 14:00	SW846 8260B	9070955
Surr: 1,2-Dichloroethane-d4 (67-138%)	*109 %*					*07/08/09 14:00*	*SW846 8260B*	*9070955*
Surr: Dibromofluoromethane (75-125%)	*109 %*					*07/08/09 14:00*	*SW846 8260B*	*9070955*
Surr: Toluene-d8 (76-129%)	*100 %*					*07/08/09 14:00*	*SW846 8260B*	*9070955*
Surr: 4-Bromofluorobenzene (67-147%)	*102 %*					*07/08/09 14:00*	*SW846 8260B*	*9070955*
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Anthracene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Benzo (a) pyrene	**0.703**		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Benzo (b) fluoranthene	**1.25**		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Benzo (g,h,i) perylene	**0.713**		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Benzo (k) fluoranthene	**0.373**		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Chrysene	**0.392**		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Dibenz (a,h) anthracene	**0.250**		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Fluoranthene	**0.105**		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Fluorene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	**0.735**		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Naphthalene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Phenanthrene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Pyrene	**0.264**		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
1-Methylnaphthalene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
2-Methylnaphthalene	ND		mg/kg dry	0.0760	1	07/10/09 19:27	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	*81 %*					*07/10/09 19:27*	*SW846 8270D*	*9071105*
Surr: 2-Fluorobiphenyl (14-120%)	*57 %*					*07/10/09 19:27*	*SW846 8270D*	*9071105*
Surr: Nitrobenzene-d5 (17-120%)	*51 %*					*07/10/09 19:27*	*SW846 8270D*	*9071105*

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-04 (492 Laurel Bay - Soil) Sampled: 06/30/09 10:20								
General Chemistry Parameters								
% Dry Solids	**93.1**		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00230	1	07/08/09 03:56	SW846 8260B	9070447
Ethylbenzene	ND		mg/kg dry	0.00230	1	07/08/09 03:56	SW846 8260B	9070447
Naphthalene	ND		mg/kg dry	0.00575	1	07/08/09 03:56	SW846 8260B	9070447
Toluene	ND		mg/kg dry	0.00230	1	07/08/09 03:56	SW846 8260B	9070447
Xylenes, total	ND		mg/kg dry	0.00575	1	07/08/09 03:56	SW846 8260B	9070447
Surr: 1,2-Dichloroethane-d4 (67-138%)	*95 %*					*07/08/09 03:56*	*SW846 8260B*	*9070447*
Surr: Dibromofluoromethane (75-125%)	*92 %*					*07/08/09 03:56*	*SW846 8260B*	*9070447*
Surr: Toluene-d8 (76-129%)	*109 %*					*07/08/09 03:56*	*SW846 8260B*	*9070447*
Surr: 4-Bromofluorobenzene (67-147%)	*109 %*					*07/08/09 03:56*	*SW846 8260B*	*9070447*
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Anthracene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Benzo (a) pyrene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Benzo (b) fluoranthene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Benzo (k) fluoranthene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Chrysene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Fluoranthene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Fluorene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Naphthalene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Phenanthrene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Pyrene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
1-Methylnaphthalene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
2-Methylnaphthalene	ND		mg/kg dry	0.0716	1	07/10/09 19:48	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	*89 %*					*07/10/09 19:48*	*SW846 8270D*	*9071105*
Surr: 2-Fluorobiphenyl (14-120%)	*71 %*					*07/10/09 19:48*	*SW846 8270D*	*9071105*
Surr: Nitrobenzene-d5 (17-120%)	*61 %*					*07/10/09 19:48*	*SW846 8270D*	*9071105*

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-05 (488 Laurel Bay - Soil) Sampled: 06/30/09 09:45								
General Chemistry Parameters								
% Dry Solids	**77.9**		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00257	1	07/08/09 04:25	SW846 8260B	9070447
Ethylbenzene	ND		mg/kg dry	0.00257	1	07/08/09 04:25	SW846 8260B	9070447
Naphthalene	ND		mg/kg dry	0.00642	1	07/08/09 04:25	SW846 8260B	9070447
Toluene	ND		mg/kg dry	0.00257	1	07/08/09 04:25	SW846 8260B	9070447
Xylenes, total	ND		mg/kg dry	0.00642	1	07/08/09 04:25	SW846 8260B	9070447
Surr: 1,2-Dichloroethane-d4 (67-138%)	*94 %*					*07/08/09 04:25*	*SW846 8260B*	*9070447*
Surr: Dibromofluoromethane (75-125%)	*87 %*					*07/08/09 04:25*	*SW846 8260B*	*9070447*
Surr: Toluene-d8 (76-129%)	*104 %*					*07/08/09 04:25*	*SW846 8260B*	*9070447*
Surr: 4-Bromofluorobenzene (67-147%)	*110 %*					*07/08/09 04:25*	*SW846 8260B*	*9070447*
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Anthracene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Benzo (a) pyrene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Benzo (b) fluoranthene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Benzo (k) fluoranthene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Chrysene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Fluoranthene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Fluorene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Naphthalene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Phenanthrene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Pyrene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
1-Methylnaphthalene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
2-Methylnaphthalene	ND		mg/kg dry	0.0857	1	07/10/09 20:10	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	*93 %*					*07/10/09 20:10*	*SW846 8270D*	*9071105*
Surr: 2-Fluorobiphenyl (14-120%)	*78 %*					*07/10/09 20:10*	*SW846 8270D*	*9071105*
Surr: Nitrobenzene-d5 (17-120%)	*74 %*					*07/10/09 20:10*	*SW846 8270D*	*9071105*

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-06 (504 Laurel Bay - Soil) Sampled: 06/30/09 14:30								
General Chemistry Parameters								
% Dry Solids	**98.4**		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00229	1	07/08/09 04:55	SW846 8260B	9070447
Ethylbenzene	ND		mg/kg dry	0.00229	1	07/08/09 04:55	SW846 8260B	9070447
Naphthalene	ND		mg/kg dry	0.00572	1	07/08/09 04:55	SW846 8260B	9070447
Toluene	ND		mg/kg dry	0.00229	1	07/08/09 04:55	SW846 8260B	9070447
Xylenes, total	ND		mg/kg dry	0.00572	1	07/08/09 04:55	SW846 8260B	9070447
Surr: 1,2-Dichloroethane-d4 (67-138%)	*99 %*					*07/08/09 04:55*	*SW846 8260B*	*9070447*
Surr: Dibromofluoromethane (75-125%)	*91 %*					*07/08/09 04:55*	*SW846 8260B*	*9070447*
Surr: Toluene-d8 (76-129%)	*108 %*					*07/08/09 04:55*	*SW846 8260B*	*9070447*
Surr: 4-Bromofluorobenzene (67-147%)	*118 %*					*07/08/09 04:55*	*SW846 8260B*	*9070447*
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Anthracene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Benzo (a) pyrene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Benzo (b) fluoranthene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Benzo (k) fluoranthene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Chrysene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Fluoranthene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Fluorene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Naphthalene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Phenanthrene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Pyrene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
1-Methylnaphthalene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
2-Methylnaphthalene	ND		mg/kg dry	0.0670	1	07/10/09 20:31	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	*94 %*					*07/10/09 20:31*	*SW846 8270D*	*9071105*
Surr: 2-Fluorobiphenyl (14-120%)	*82 %*					*07/10/09 20:31*	*SW846 8270D*	*9071105*
Surr: Nitrobenzene-d5 (17-120%)	*77 %*					*07/10/09 20:31*	*SW846 8270D*	*9071105*

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
Sample ID: NSG0282-07 (500 Laurel Bay - Soil) Sampled: 06/30/09 14:00								
General Chemistry Parameters								
% Dry Solids	**95.4**		%	0.500	1	07/16/09 09:06	SW-846	9071822
Selected Volatile Organic Compounds by EPA Method 8260B								
Benzene	ND		mg/kg dry	0.00223	1	07/08/09 05:25	SW846 8260B	9070447
Ethylbenzene	ND		mg/kg dry	0.00223	1	07/08/09 05:25	SW846 8260B	9070447
Naphthalene	ND		mg/kg dry	0.00558	1	07/08/09 05:25	SW846 8260B	9070447
Toluene	ND		mg/kg dry	0.00223	1	07/08/09 05:25	SW846 8260B	9070447
Xylenes, total	ND		mg/kg dry	0.00558	1	07/08/09 05:25	SW846 8260B	9070447
Surr: 1,2-Dichloroethane-d4 (67-138%)	*99 %*					*07/08/09 05:25*	*SW846 8260B*	*9070447*
Surr: Dibromofluoromethane (75-125%)	*93 %*					*07/08/09 05:25*	*SW846 8260B*	*9070447*
Surr: Toluene-d8 (76-129%)	*112 %*					*07/08/09 05:25*	*SW846 8260B*	*9070447*
Surr: 4-Bromofluorobenzene (67-147%)	*115 %*					*07/08/09 05:25*	*SW846 8260B*	*9070447*
Polyaromatic Hydrocarbons by EPA 8270D								
Acenaphthene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Acenaphthylene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Anthracene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Benzo (a) anthracene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Benzo (a) pyrene	**0.0734**		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Benzo (b) fluoranthene	**0.121**		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Benzo (k) fluoranthene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Chrysene	**0.0968**		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Fluoranthene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Fluorene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Naphthalene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Phenanthrene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Pyrene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
1-Methylnaphthalene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
2-Methylnaphthalene	ND		mg/kg dry	0.0690	1	07/10/09 20:52	SW846 8270D	9071105
Surr: Terphenyl-d14 (18-120%)	*78 %*					*07/10/09 20:52*	*SW846 8270D*	*9071105*
Surr: 2-Fluorobiphenyl (14-120%)	*67 %*					*07/10/09 20:52*	*SW846 8270D*	*9071105*
Surr: Nitrobenzene-d5 (17-120%)	*63 %*					*07/10/09 20:52*	*SW846 8270D*	*9071105*

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	9071105	NSG0282-01	30.29	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-01RE1	30.29	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-01RE2	30.29	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-02	30.44	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-02RE1	30.44	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-03	30.11	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-04	30.14	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-05	30.12	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-06	30.51	1.00	07/09/09 10:25	TEM	EPA 3550B
SW846 8270D	9071105	NSG0282-07	30.55	1.00	07/09/09 10:25	TEM	EPA 3550B
Selected Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	9070447	NSG0282-01	5.54	5.00	06/29/09 10:35	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-02	5.60	5.00	06/29/09 14:30	CHH	EPA 5035
SW846 8260B	9070955	NSG0282-02RE1	4.85	5.00	06/29/09 14:30	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-03	5.13	5.00	06/29/09 14:40	CHH	EPA 5035
SW846 8260B	9070955	NSG0282-03RE1	5.55	5.00	06/29/09 14:40	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-04	4.67	5.00	06/30/09 10:20	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-05	5.00	5.00	06/30/09 09:45	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-06	4.44	5.00	06/30/09 14:30	CHH	EPA 5035
SW846 8260B	9070447	NSG0282-07	4.70	5.00	06/30/09 14:00	CHH	EPA 5035

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B						
9070447-BLK1						
Benzene	<0.000670		mg/kg wet	9070447	9070447-BLK1	07/08/09 01:58
Ethylbenzene	<0.000670		mg/kg wet	9070447	9070447-BLK1	07/08/09 01:58
Naphthalene	<0.00170		mg/kg wet	9070447	9070447-BLK1	07/08/09 01:58
Toluene	<0.000400		mg/kg wet	9070447	9070447-BLK1	07/08/09 01:58
Xylenes, total	<0.00130		mg/kg wet	9070447	9070447-BLK1	07/08/09 01:58
Surrogate: 1,2-Dichloroethane-d4	104%			9070447	9070447-BLK1	07/08/09 01:58
Surrogate: Dibromofluoromethane	98%			9070447	9070447-BLK1	07/08/09 01:58
Surrogate: Toluene-d8	110%			9070447	9070447-BLK1	07/08/09 01:58
Surrogate: 4-Bromofluorobenzene	103%			9070447	9070447-BLK1	07/08/09 01:58
9070955-BLK1						
Benzene	<0.000670		mg/kg wet	9070955	9070955-BLK1	07/08/09 13:30
Ethylbenzene	<0.000670		mg/kg wet	9070955	9070955-BLK1	07/08/09 13:30
Naphthalene	<0.00170		mg/kg wet	9070955	9070955-BLK1	07/08/09 13:30
Toluene	<0.000400		mg/kg wet	9070955	9070955-BLK1	07/08/09 13:30
Xylenes, total	<0.00130		mg/kg wet	9070955	9070955-BLK1	07/08/09 13:30
Surrogate: 1,2-Dichloroethane-d4	102%			9070955	9070955-BLK1	07/08/09 13:30
Surrogate: Dibromofluoromethane	103%			9070955	9070955-BLK1	07/08/09 13:30
Surrogate: Toluene-d8	97%			9070955	9070955-BLK1	07/08/09 13:30
Surrogate: 4-Bromofluorobenzene	98%			9070955	9070955-BLK1	07/08/09 13:30
Polyaromatic Hydrocarbons by EPA 8270D						
9071105-BLK1						
Acenaphthene	<0.0320		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Acenaphthylene	<0.0310		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Anthracene	<0.0330		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Benzo (a) anthracene	<0.0380		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Benzo (a) pyrene	<0.0300		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Benzo (b) fluoranthene	<0.0300		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Benzo (g,h,i) perylene	<0.0300		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Benzo (k) fluoranthene	<0.0300		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Chrysene	<0.0400		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Dibenz (a,h) anthracene	<0.0310		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Fluoranthene	<0.0340		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Fluorene	<0.0360		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Naphthalene	<0.0410		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Phenanthrene	<0.0340		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
Pyrene	<0.0410		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
1-Methylnaphthalene	<0.0320		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35
2-Methylnaphthalene	<0.0330		mg/kg wet	9071105	9071105-BLK1	07/10/09 16:35

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D						
9071105-BLK1						
Surrogate: Terphenyl-d14	92%			9071105	9071105-BLK1	07/10/09 16:35
Surrogate: 2-Fluorobiphenyl	80%			9071105	9071105-BLK1	07/10/09 16:35
Surrogate: Nitrobenzene-d5	80%			9071105	9071105-BLK1	07/10/09 16:35

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
9071822-DUP1										
% Dry Solids	78.6	77.3		%	2	20	9071822	NSG0845-08		07/16/09 09:06

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B								
9070447-BS1								
Benzene	50.0	57.9		ug/kg	116%	78 - 126	9070447	07/07/09 23:59
Ethylbenzene	50.0	50.2		ug/kg	100%	79 - 130	9070447	07/07/09 23:59
Naphthalene	50.0	52.9		ug/kg	106%	72 - 150	9070447	07/07/09 23:59
Toluene	50.0	52.8		ug/kg	106%	76 - 126	9070447	07/07/09 23:59
Xylenes, total	150	159		ug/kg	106%	80 - 130	9070447	07/07/09 23:59
Surrogate: 1,2-Dichloroethane-d4	50.0	55.6			111%	67 - 138	9070447	07/07/09 23:59
Surrogate: Dibromofluoromethane	50.0	50.4			101%	75 - 125	9070447	07/07/09 23:59
Surrogate: Toluene-d8	50.0	50.3			101%	76 - 129	9070447	07/07/09 23:59
Surrogate: 4-Bromofluorobenzene	50.0	50.4			101%	67 - 147	9070447	07/07/09 23:59
9070955-BS1								
Benzene	50.0	49.0		ug/kg	98%	78 - 126	9070955	07/08/09 11:08
Ethylbenzene	50.0	49.4		ug/kg	99%	79 - 130	9070955	07/08/09 11:08
Naphthalene	50.0	65.7		ug/kg	131%	72 - 150	9070955	07/08/09 11:08
Toluene	50.0	47.8		ug/kg	96%	76 - 126	9070955	07/08/09 11:08
Xylenes, total	150	151		ug/kg	100%	80 - 130	9070955	07/08/09 11:08
Surrogate: 1,2-Dichloroethane-d4	50.0	61.5			123%	67 - 138	9070955	07/08/09 11:08
Surrogate: Dibromofluoromethane	50.0	56.4			113%	75 - 125	9070955	07/08/09 11:08
Surrogate: Toluene-d8	50.0	50.5			101%	76 - 129	9070955	07/08/09 11:08
Surrogate: 4-Bromofluorobenzene	50.0	48.2			96%	67 - 147	9070955	07/08/09 11:08
Polyaromatic Hydrocarbons by EPA 8270D								
9071105-BS1								
Acenaphthene	1.67	1.39		mg/kg wet	83%	49 - 120	9071105	07/10/09 16:57
Acenaphthylene	1.67	1.39		mg/kg wet	84%	52 - 120	9071105	07/10/09 16:57
Anthracene	1.67	1.56		mg/kg wet	93%	58 - 120	9071105	07/10/09 16:57
Benzo (a) anthracene	1.67	1.49		mg/kg wet	89%	57 - 120	9071105	07/10/09 16:57
Benzo (a) pyrene	1.67	1.51		mg/kg wet	91%	55 - 120	9071105	07/10/09 16:57
Benzo (b) fluoranthene	1.67	1.58		mg/kg wet	95%	51 - 123	9071105	07/10/09 16:57
Benzo (g,h,i) perylene	1.67	1.34		mg/kg wet	80%	49 - 121	9071105	07/10/09 16:57
Benzo (k) fluoranthene	1.67	1.39		mg/kg wet	83%	42 - 129	9071105	07/10/09 16:57
Chrysene	1.67	1.46		mg/kg wet	87%	55 - 120	9071105	07/10/09 16:57
Dibenz (a,h) anthracene	1.67	1.44		mg/kg wet	86%	50 - 123	9071105	07/10/09 16:57
Fluoranthene	1.67	1.55		mg/kg wet	93%	58 - 120	9071105	07/10/09 16:57
Fluorene	1.67	1.43		mg/kg wet	86%	54 - 120	9071105	07/10/09 16:57
Indeno (1,2,3-cd) pyrene	1.67	1.41		mg/kg wet	84%	50 - 122	9071105	07/10/09 16:57
Naphthalene	1.67	1.15		mg/kg wet	69%	28 - 107	9071105	07/10/09 16:57
Phenanthrene	1.67	1.42		mg/kg wet	85%	56 - 120	9071105	07/10/09 16:57
Pyrene	1.67	1.47		mg/kg wet	88%	56 - 120	9071105	07/10/09 16:57
1-Methylnaphthalene	1.67	1.12		mg/kg wet	67%	36 - 120	9071105	07/10/09 16:57
2-Methylnaphthalene	1.67	1.14		mg/kg wet	69%	36 - 120	9071105	07/10/09 16:57

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

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								
9071105-BS1								
Surrogate: Terphenyl-d14	1.67	1.36			82%	18 - 120	9071105	07/10/09 16:57
Surrogate: 2-Fluorobiphenyl	1.67	1.23			74%	14 - 120	9071105	07/10/09 16:57
Surrogate: Nitrobenzene-d5	1.67	1.07			64%	17 - 120	9071105	07/10/09 16:57

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

PROJECT QUALITY CONTROL DATA
LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B												
9070447-BSD1												
Benzene		46.6		ug/kg	50.0	93%	78 - 126	22	50	9070447		07/08/09 00:29
Ethylbenzene		43.4		ug/kg	50.0	87%	79 - 130	14	50	9070447		07/08/09 00:29
Naphthalene		42.0		ug/kg	50.0	84%	72 - 150	23	50	9070447		07/08/09 00:29
Toluene		48.6		ug/kg	50.0	97%	76 - 126	8	50	9070447		07/08/09 00:29
Xylenes, total		141		ug/kg	150	94%	80 - 130	12	50	9070447		07/08/09 00:29
Surrogate: 1,2-Dichloroethane-d4		52.2		ug/kg	50.0	104%	67 - 138			9070447		07/08/09 00:29
Surrogate: Dibromofluoromethane		50.9		ug/kg	50.0	102%	75 - 125			9070447		07/08/09 00:29
Surrogate: Toluene-d8		55.9		ug/kg	50.0	112%	76 - 129			9070447		07/08/09 00:29
Surrogate: 4-Bromofluorobenzene		50.8		ug/kg	50.0	102%	67 - 147			9070447		07/08/09 00:29
9070955-BSD1												
Benzene		49.3		ug/kg	50.0	99%	78 - 126	0.5	50	9070955		07/08/09 11:39
Ethylbenzene		49.0		ug/kg	50.0	98%	79 - 130	0.9	50	9070955		07/08/09 11:39
Naphthalene		65.7		ug/kg	50.0	131%	72 - 150	0.05	50	9070955		07/08/09 11:39
Toluene		47.4		ug/kg	50.0	95%	76 - 126	0.9	50	9070955		07/08/09 11:39
Xylenes, total		150		ug/kg	150	100%	80 - 130	0.5	50	9070955		07/08/09 11:39
Surrogate: 1,2-Dichloroethane-d4		61.9		ug/kg	50.0	124%	67 - 138			9070955		07/08/09 11:39
Surrogate: Dibromofluoromethane		57.7		ug/kg	50.0	115%	75 - 125			9070955		07/08/09 11:39
Surrogate: Toluene-d8		50.7		ug/kg	50.0	101%	76 - 129			9070955		07/08/09 11:39
Surrogate: 4-Bromofluorobenzene		47.9		ug/kg	50.0	96%	67 - 147			9070955		07/08/09 11:39

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B										
9070955-MS1										
Benzene	ND	1.99		mg/kg wet	2.77	72%	42 - 141	9070955	NSG0285-06RE1	07/08/09 20:40
Ethylbenzene	ND	2.08		mg/kg wet	2.77	75%	21 - 165	9070955	NSG0285-06RE1	07/08/09 20:40
Naphthalene	ND	2.00		mg/kg wet	2.77	72%	10 - 160	9070955	NSG0285-06RE1	07/08/09 20:40
Toluene	ND	2.03		mg/kg wet	2.77	73%	45 - 145	9070955	NSG0285-06RE1	07/08/09 20:40
Xylenes, total	0.0782	6.37		mg/kg wet	8.31	76%	31 - 159	9070955	NSG0285-06RE1	07/08/09 20:40
Surrogate: 1,2-Dichloroethane-d4		39.2		ug/kg	50.0	78%	67 - 138	9070955	NSG0285-06RE1	07/08/09 20:40
Surrogate: Dibromofluoromethane		42.5		ug/kg	50.0	85%	75 - 125	9070955	NSG0285-06RE1	07/08/09 20:40
Surrogate: Toluene-d8		48.4		ug/kg	50.0	97%	76 - 129	9070955	NSG0285-06RE1	07/08/09 20:40
Surrogate: 4-Bromofluorobenzene		49.7		ug/kg	50.0	99%	67 - 147	9070955	NSG0285-06RE1	07/08/09 20:40
Polyaromatic Hydrocarbons by EPA 8270D										
9071105-MS1										
Acenaphthene	ND	1.86		mg/kg dry	2.12	88%	42 - 120	9071105	NSG0282-05	07/10/09 17:18
Acenaphthylene	ND	1.87		mg/kg dry	2.12	88%	32 - 120	9071105	NSG0282-05	07/10/09 17:18
Anthracene	ND	2.06		mg/kg dry	2.12	97%	10 - 200	9071105	NSG0282-05	07/10/09 17:18
Benzo (a) anthracene	ND	1.99		mg/kg dry	2.12	94%	41 - 120	9071105	NSG0282-05	07/10/09 17:18
Benzo (a) pyrene	ND	2.00		mg/kg dry	2.12	94%	33 - 121	9071105	NSG0282-05	07/10/09 17:18
Benzo (b) fluoranthene	ND	2.08		mg/kg dry	2.12	98%	26 - 137	9071105	NSG0282-05	07/10/09 17:18
Benzo (g,h,i) perylene	ND	1.78		mg/kg dry	2.12	84%	21 - 124	9071105	NSG0282-05	07/10/09 17:18
Benzo (k) fluoranthene	ND	1.93		mg/kg dry	2.12	91%	14 - 140	9071105	NSG0282-05	07/10/09 17:18
Chrysene	ND	1.94		mg/kg dry	2.12	91%	28 - 123	9071105	NSG0282-05	07/10/09 17:18
Dibenz (a,h) anthracene	ND	1.92		mg/kg dry	2.12	90%	25 - 127	9071105	NSG0282-05	07/10/09 17:18
Fluoranthene	ND	2.17		mg/kg dry	2.12	102%	38 - 120	9071105	NSG0282-05	07/10/09 17:18
Fluorene	ND	1.99		mg/kg dry	2.12	94%	41 - 120	9071105	NSG0282-05	07/10/09 17:18
Indeno (1,2,3-cd) pyrene	ND	1.86		mg/kg dry	2.12	88%	25 - 123	9071105	NSG0282-05	07/10/09 17:18
Naphthalene	ND	1.52		mg/kg dry	2.12	72%	25 - 120	9071105	NSG0282-05	07/10/09 17:18
Phenanthrene	ND	1.93		mg/kg dry	2.12	91%	37 - 120	9071105	NSG0282-05	07/10/09 17:18
Pyrene	ND	2.00		mg/kg dry	2.12	94%	29 - 125	9071105	NSG0282-05	07/10/09 17:18
1-Methylnaphthalene	ND	1.49		mg/kg dry	2.12	70%	19 - 120	9071105	NSG0282-05	07/10/09 17:18
2-Methylnaphthalene	ND	1.55		mg/kg dry	2.12	73%	11 - 120	9071105	NSG0282-05	07/10/09 17:18
Surrogate: Terphenyl-d14		1.90		mg/kg dry	2.12	90%	18 - 120	9071105	NSG0282-05	07/10/09 17:18
Surrogate: 2-Fluorobiphenyl		1.66		mg/kg dry	2.12	78%	14 - 120	9071105	NSG0282-05	07/10/09 17:18
Surrogate: Nitrobenzene-d5		1.36		mg/kg dry	2.12	64%	17 - 120	9071105	NSG0282-05	07/10/09 17:18

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

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										

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

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
Selected Volatile Organic Compounds by EPA Method 8260B												
9070955-MSD1												
Benzene	ND	2.07		mg/kg wet	2.77	75%	42 - 141	4	50	9070955	NSG0285-06RE1	07/08/09 21:11
Ethylbenzene	ND	2.12		mg/kg wet	2.77	76%	21 - 165	2	50	9070955	NSG0285-06RE1	07/08/09 21:11
Naphthalene	ND	2.12		mg/kg wet	2.77	77%	10 - 160	6	50	9070955	NSG0285-06RE1	07/08/09 21:11
Toluene	ND	2.05		mg/kg wet	2.77	74%	45 - 145	1	50	9070955	NSG0285-06RE1	07/08/09 21:11
Xylenes, total	0.0782	6.41		mg/kg wet	8.31	76%	31 - 159	0.5	50	9070955	NSG0285-06RE1	07/08/09 21:11
Surrogate: 1,2-Dichloroethane-d4		39.9		ug/kg	50.0	80%	67 - 138			9070955	NSG0285-06RE1	07/08/09 21:11
Surrogate: Dibromofluoromethane		43.6		ug/kg	50.0	87%	75 - 125			9070955	NSG0285-06RE1	07/08/09 21:11
Surrogate: Toluene-d8		47.8		ug/kg	50.0	96%	76 - 129			9070955	NSG0285-06RE1	07/08/09 21:11
Surrogate: 4-Bromofluorobenzene		49.6		ug/kg	50.0	99%	67 - 147			9070955	NSG0285-06RE1	07/08/09 21:11
Polyaromatic Hydrocarbons by EPA 8270D												
9071105-MSD1												
Acenaphthene	ND	1.35		mg/kg dry	2.10	64%	42 - 120	32	40	9071105	NSG0282-05	07/10/09 17:40
Acenaphthylene	ND	1.34	R	mg/kg dry	2.10	64%	32 - 120	33	30	9071105	NSG0282-05	07/10/09 17:40
Anthracene	ND	1.59		mg/kg dry	2.10	76%	10 - 200	26	50	9071105	NSG0282-05	07/10/09 17:40
Benzo (a) anthracene	ND	1.51		mg/kg dry	2.10	72%	41 - 120	27	30	9071105	NSG0282-05	07/10/09 17:40
Benzo (a) pyrene	ND	1.50		mg/kg dry	2.10	72%	33 - 121	28	33	9071105	NSG0282-05	07/10/09 17:40
Benzo (b) fluoranthene	ND	1.40		mg/kg dry	2.10	67%	26 - 137	39	42	9071105	NSG0282-05	07/10/09 17:40
Benzo (g,h,i) perylene	ND	1.31		mg/kg dry	2.10	63%	21 - 124	30	32	9071105	NSG0282-05	07/10/09 17:40
Benzo (k) fluoranthene	ND	1.59		mg/kg dry	2.10	76%	14 - 140	20	39	9071105	NSG0282-05	07/10/09 17:40
Chrysene	ND	1.47		mg/kg dry	2.10	70%	28 - 123	27	34	9071105	NSG0282-05	07/10/09 17:40
Dibenz (a,h) anthracene	ND	1.42		mg/kg dry	2.10	68%	25 - 127	30	31	9071105	NSG0282-05	07/10/09 17:40
Fluoranthene	ND	1.62		mg/kg dry	2.10	77%	38 - 120	29	35	9071105	NSG0282-05	07/10/09 17:40
Fluorene	ND	1.43		mg/kg dry	2.10	68%	41 - 120	33	37	9071105	NSG0282-05	07/10/09 17:40
Indeno (1,2,3-cd) pyrene	ND	1.37		mg/kg dry	2.10	65%	25 - 123	31	32	9071105	NSG0282-05	07/10/09 17:40
Naphthalene	ND	1.10		mg/kg dry	2.10	53%	25 - 120	32	42	9071105	NSG0282-05	07/10/09 17:40
Phenanthrene	ND	1.46		mg/kg dry	2.10	70%	37 - 120	28	32	9071105	NSG0282-05	07/10/09 17:40
Pyrene	ND	1.51		mg/kg dry	2.10	72%	29 - 125	28	40	9071105	NSG0282-05	07/10/09 17:40
1-Methylnaphthalene	ND	1.05		mg/kg dry	2.10	50%	19 - 120	35	45	9071105	NSG0282-05	07/10/09 17:40
2-Methylnaphthalene	ND	1.14		mg/kg dry	2.10	54%	11 - 120	31	50	9071105	NSG0282-05	07/10/09 17:40
Surrogate: Terphenyl-d14		1.48		mg/kg dry	2.10	71%	18 - 120			9071105	NSG0282-05	07/10/09 17:40
Surrogate: 2-Fluorobiphenyl		1.16		mg/kg dry	2.10	55%	14 - 120			9071105	NSG0282-05	07/10/09 17:40
Surrogate: Nitrobenzene-d5		1.01		mg/kg dry	2.10	48%	17 - 120			9071105	NSG0282-05	07/10/09 17:40

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

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			

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NSG0282
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	07/03/09 08:00

DATA QUALIFIERS AND DEFINITIONS

E	Concentration exceeds the calibration range and therefore result is semi-quantitative.
R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
S10	Insufficient sample available for reanalysis.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

NSG0282
07/20/09 23:59

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 # 2449
Address: 10179 Highway 78
City/State/Zip: Ladson, SC 29456
Site State: SC
Project Manager: Tom McElwee email: mcelwee@eeginc.net
PO#: 0829
Telephone Number: 843.412.2097 Fax No.: 843-879-0401
TA Quote #:
Sampler Name: (Print) Brad Shaw
Project ID: Laurel Bay Housing Project
Sampler Signature:
Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red Label) N2SO4 (Red)	HCl (Blue Label)	NaOH (Orange Label)	H2SO4 Plastic (Yellow Label)	H2SO4 Glass (Yellow Label)	None (Black Label)	Other (Specify) Methanol	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	Analyze For: BTEX + Napth - 8260B	PAH - 8270C								RUSH TAT (Pre-Schedule)
1176 JASMINE	6/29/09	1035	5					2					2	1					X		3	2				NSG0282-01				
480 LAUREL BAY	6/29/09	1430	5					2					2	1					X		3	2						02		
484 LAUREL BAY	6/29/09	1440	5					2					2	1					X		3	2						03		
492 LAUREL BAY	6/30/09	1020	5					2					2	1					X		3	2						04		
488 LAUREL BAY	6/30/09	0945	5					2					2	1					X		3	2						05		
504 LAUREL BAY	6/30/09	1430	5					2					2	1					X		3	2						06		
500 LAUREL BAY	6/30/09	1400	5					2					2	1					X		3	2						07		

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	7/2/09	1900	Fedex		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				7.3.09	0800

Laboratory Comments:
Temperature Upon Receipt: 4.6°C
VOCs Free of Headspace? Y

ATTACHMENT A

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

CWMI

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1
3. Generator's Name and Mailing Address: MCAS, Beaufort, Laurel Bay Housing, Beaufort SC 29904			A. Manifest Number: WMNA 10885475
4. Generator's Phone: 843 228-6460			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, ROUTE 1, BOX 121, RIDGELAND SC 29936	10. US EPA ID Number		G. State Facility's ID
			H. Facility's Phone: 843 987-4643

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Heating Oil Tank filled with Sand — WM Profile # 102655SC	001		11.16	TN	
b. WM Profile #					
c. WM Profile #					
WM Profile #					

J. Additional Descriptions for Materials Listed Above

Landfill ________ Solidification ________

Bio Remediation ________

K. Disposal Location

Cell   Level

Grid

15. Special Handling Instructions and Additional Information
GCRA UST's from Houses HA
1) 504 Laurel Bay ✓
2) 500 Laurel Bay ✓
3) 512 Laurel Bay ✓
4) 506 Laurel Bay ✓
5) 514 Laurel Bay ✓
6) 1181 Bobwhite ✓

Purchase Order #   EMERGENCY CONTACT:

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 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/Typed Name	Signature "On behalf of"	Month Day Year
W.G. Dukes, Jr.	[signature]	10 06 09

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Joseph Weston	[signature]	

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

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

Printed/Typed Name	Signature	Month Day Year
Jan Collins	[signature]	10 06 09

#2 - GENERATOR #1 COPY

Appendix C
Regulatory Correspondence

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

Bureau of Land and Waste Management
Division of Waste Management

February 17, 2010

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

RE: No Further Action
Laurel Bay Underground Storage Tank Assessment Reports for:

- 492 Laurel Bay
- 488 Laurel Bay
- 504 Laurel Bay
- 500 Laurel Bay

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the above referenced Underground Storage Tanks (USTs) Assessment Reports on September 23, 2009 and October 8, 2009 for the addresses listed above.

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 Corp 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 picketcn@dhec.sc.gov or 803-896-4131.

Sincerely,

Christi Pickett

Christi Pickett
Corrective Action Engineering Section
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control

cc: Laurel Rhoten (via email)
Craig Ehde (via email)

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health
and Environmental Control

MEMORANDUM

TO: Christi Pickett Engineering Associate
Corrective Action Engineering Section
Division of Waste Management
Bureau of Land and Waste Management

FROM: J Sommer Streett, Hydrogeologist JSS
Federal Facilities Groundwater Section
Division of Waste Management
Bureau of Land and Waste Management

DATE: February 17, 2010

RE: Marine Corps Air Station (MCAS)
Beaufort, South Carolina
SC1 750 216 169

Underground Storage Tank (UST) Assessment Report
488 Laurel Bay Blvd., Laurel Bay Military Housing Area
492 Laurel Bay Blvd., Laurel Bay Military Housing Area
500 Laurel Bay Blvd., Laurel Bay Military Housing Area
504 Laurel Bay Blvd., Laurel Bay Military Housing Area
Dated September 23, 2009

The documents referenced above have been reviewed with respect to the South Carolina Pollution Control Act 48-1-10. These documents include data from soil samples collected during removal of underground heating oil tanks at the Laurel Bay Housing Area. These tanks are being voluntarily removed by the MCAS. Data included in these reports have been compared to the appropriate screening levels.

USTs 488 Laurel Bay Blvd., 492 Laurel Bay Blvd., 500 Laurel Bay Blvd. and 504 Laurel Bay Blvd. are single steel wall 280 gallon heating oil tanks that were installed during the late 1950s and used through the mid 1980s. They were removed during the June 30, 2009 field activities and disposed of at a subtitle D landfill.

Based on this review, the Federal Facilities Groundwater Section has no comment.

DD100071.JSS