SUMMARY REPORT
99 GARDENIA DRIVE (FORMERLY 1065 GARDENIA DRIVE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and

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

JUNE 2021

SUMMARY REPORT
99 GARDENIA DRIVE (FORMERLY 1065 GARDENIA DRIVE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and

Naval Facilities Engineering Command Atlantic

9324 Virginia Avenue
Norfolk, Virginia 23511-3095

Prepared by:

CDM - AECOM
Multimedia Joint Venture

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

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

Table of Contents

Tables

Appendices

List of Acronyms

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

1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 99 Gardenia Drive (Formerly 1065 Gardenia Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

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

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 99 Gardenia Drive (Formerly 1065 Gardenia Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1065 Gardenia Drive* (MCAS Beaufort, 2008) and *SCDHEC UST Assessment Report – 1065 Gardenia Drive* (MCAS Beaufort, 2015). The UST Assessment Reports are provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites Report* (Resolution Consultants, 2008). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

2.1 UST Removal and Soil Sampling

In August 2007 and July 2015, two 280 gallon heating oil USTs were removed at 99 Gardenia Drive (Formerly 1065 Gardenia Drive). Tank 1 was removed on August 8, 2007 from the front yard area, adjacent to the house. Tank 2 was removed on July 21, 2015 from underneath the

edge of the front landscaped bed area and the front concrete porch. The former UST locations are indicated in the figures of the UST Assessment Reports (Appendix B). The USTs were removed, cleaned, and shipped offsite for recycling. There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Reports (Appendix B), the depths to the bases of the USTs were 5'5" (Tank 1) and 5'0" (Tank 2) bgs and a single soil sample was collected for each at that depth. An additional soil sample was collected from the side of the excavation at a depth of 4'0" for Tank 1. 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 the side in the excavation for Tank 1 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 are presented in Table 1. A copy of the laboratory analytical data reports are included in the UST Assessment Reports 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 99 Gardenia Drive (Formerly 1065 Gardenia Drive) during the removal of Tank 1 were greater than the SCDHEC RBSLs, which indicated further investigation was required. The soil results collected from 99 Gardenia Drive (Formerly 1065 Gardenia Drive) during the removal of Tank 2 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. In a letter dated August 13, 2008, SCDHEC requested an IGWA be conducted at the former UST location (Tank 1) at 99 Gardenia Drive (Formerly 1065 Gardenia Drive) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

2.3 Groundwater Sampling

On July 29, 2008, a temporary monitoring well was installed at 99 Gardenia Drive (Formerly 1065 Gardenia Drive), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST (Tank 1). The former UST location is indicated on figures of the UST Assessment Report (Appendix B). Further details are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites Report* (Resolution Consultants, 2008).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites Report* (Resolution Consultants, 2008).

2.4 Groundwater Analytical Results

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

The groundwater results collected from 99 Gardenia Drive (Formerly 1065 Gardenia Drive) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated that the groundwater was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for groundwater (Tank 1) and soil (Tank 2), SCDHEC made the determination that NFA was required for 99 Gardenia Drive (Formerly 1065 Gardenia Drive). This NFA determination was obtained in letters dated December 19, 2008 (Tank 1) and August 3, 2016 (Tank 2). SCDHEC's NFA letters are provided in Appendix D.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2008. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1065 Gardenia Drive, Laurel Bay Military Housing Area*, January 2008.

Marine Corps Air Station Beaufort, 2015. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1065 Gardenia Drive, Laurel Bay Military Housing Area*, November 2015.

Resolution Consultants, 2008. *Investigation of Ground Water at Leaking Heating Oil UST Sites Report, for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, November 2008.

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

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

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

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

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

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

Tables

Table 1
Laboratory Analytical Results - Soil
99 Gardenia Drive (Formerly 1065 Gardenia Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Results Samples Collected 08/17/07 and 07/21/15		
		1065 Gardenia Bottom 01 08/17/07	1065 Gardenia Side 02 08/17/07	1065 Gardenia 07/21/15
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)				
Benzene	0.003	ND	ND	ND
Ethylbenzene	1.15	ND	**0.000112**	ND
Naphthalene	0.036	**0.313**	**0.000254**	ND
Toluene	0.627	ND	**0.000296**	ND
Xylenes, Total	13.01	ND	**0.000370**	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)				
Benzo(a)anthracene	0.66	**0.425**	**0.0447**	ND
Benzo(b)fluoranthene	0.66	**0.260**	ND	ND
Benzo(k)fluoranthene	0.66	**0.159**	ND	ND
Chrysene	0.66	**0.393**	**0.0525**	ND
Dibenz(a,h)anthracene	0.66	ND	ND	ND

Notes:

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Table 2
Laboratory Analytical Results - Groundwater
99 Gardenia Drive (Formerly 1065 Gardenia Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Site-Specific Groundwater VISLs (µg/L)[2]	Results Sample Collected 07/28/08
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)			
Benzene	5	16.24	ND
Ethylbenzene	700	45.95	ND
Naphthalene	25	29.33	**5.7**
Toluene	1000	105,445	ND
Xylenes, Total	10,000	2,133	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)			
Benzo(a)anthracene	10	NA	ND
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	ND
Dibenz(a,h)anthracene	10	NA	ND

Notes:

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

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - Not Applicable

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

RBSL - Risk-Based Screening Level

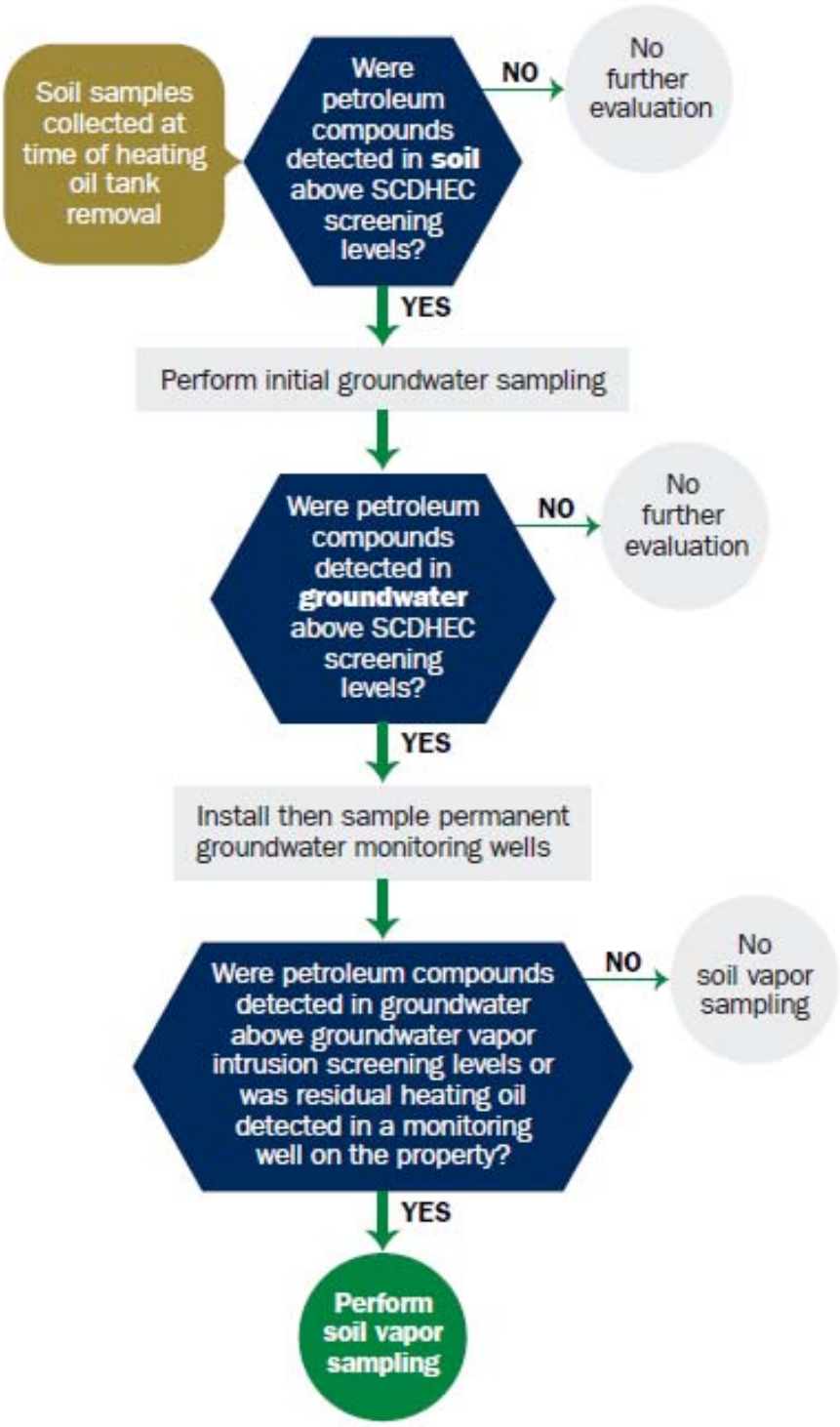
SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Reports

CDM - AECOM
Multimedia Joint Venture

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report

Date Received: [redacted]

State Use Only

Submit Completed Form To:
UST Program
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 896-6240

I. OWNERSHIP OF UST (S)

Beaufort Military Complex Family Housing
Owner Name (Corporation, Individual, Public Agency, Other)

1510 Laurel Bay Blvd.
Mailing Address

Beaufort | SC | 29906
City | State | Zip Code

843 | 379-3305 | Kyle Broadfoot
Area Code | Telephone Number | Contact Person

II. SITE IDENTIFICATION AND LOCATION

N/A
Permit I.D. #

Actus Lend Lease Construction
Facility Name or Company Site Identifier

1065 Gardenia
Street Address or State Road (as applicable)

Beaufort, SC | 29906 | Beaufort
City | ZIP | County

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on N/A at Permit ID # 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.

And

I **do**/**do not** (circle one) wish to participate in the Superb Program.

IV. CERTIFICATION (To be signed by the UST owner/operator.)

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

V. UST INFORMATION

	Tank 1	Tar	Tank 3	Tank 4	Tank 5	Tank 6
A. Product...(ex. Gas, Kerosene).....	#2 DIESEL					
B. Capacity..(ex. 1k, 2k)..... (APPROX.)	350g.					
C. Age.....						
D. Construction Material..(ex. Steel, FRP).....	Steel					
E. Month/Year of Last Use.....						
F. Depth (ft.) To Base of Tank.....	65"					
G. Spill Prevention Equipment Y/N.....	N					
H. Overfill Prevention Equipment Y/N.....	N					
I. Method of Closure (Removed/Filled).....	Removed					
J. Date Tanks Removed/Filled.....	8-8-7					
K. Visible Corrosion or Pitting Y/N.....	N					
L. Visible Holes Y/N.....	Y					

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

Recycling - Scrap Steel

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

Republic - Broadhurst Landfill

Solidification - Subtitle D Landfill

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

TANK WAS Filled w/ Oil + Water

VI. PIPI INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A. Construction Material..(ex. Steel, FRP).....	Steel					
B. Distance from UST to Dispenser.....	N/A					
C. Number of Dispensers.....	-0-					
D. Type of System Pressure or Suction.....	Electric Pump					
E. Was Piping Removed from the Ground? Y/N	Y					
F. Visible Corrosion or Pitting Y/N.....	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.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Home Heating Oil Tank - Residential

VIII. 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	

IX. SAM E INFORMATION

A. SCDHEC Lab Certification Number DW: 84009002

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1	BOTTOM	S	SAND	65"	8-7-7	M JONES	ND
2	SIDE	S	SAND	48"	8-7-7	M. JONES	ND
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

X. SAMPLING METHODOLO

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.

EPA Method 8260 B Volatile Organic Compounds
- Preservative: 2ea Sodium Bisulfate 1ea
EPA Method 8270 Poly Aromatic Hydrocarbons
- No Preservative

One (1) Sidewall And One (1) Bottom Sample were secured from tank excavation Samples were stored AND shipped in AN insulated cooler w/ ice.

XI. RECEPTC

	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.		✓
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.		✓
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? If yes, indicate the type of utility, distance, and direction on the site map.		✓
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.		✓

SUMMARY OF ANALYSIS RESULTS N/A

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

CoC	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

CoC	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

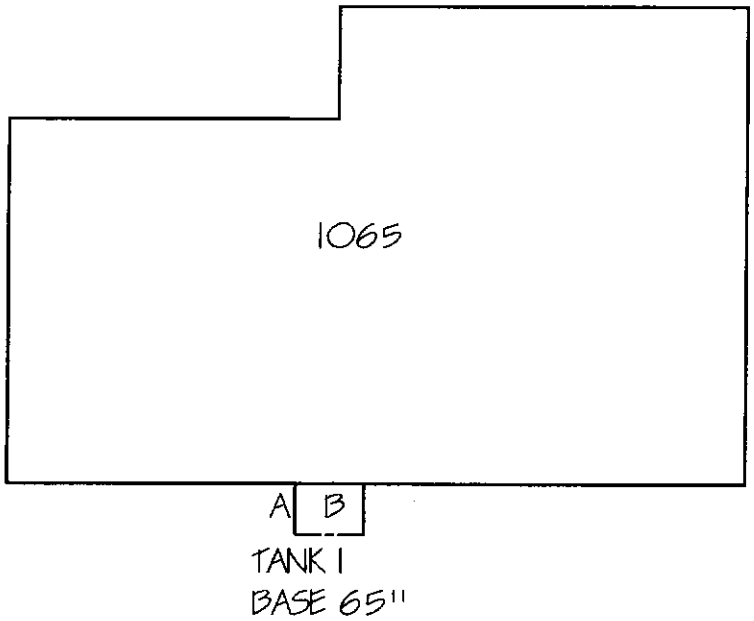
SUMMARY OF ANALYSIS RESULTS (cont'd) N/A

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	.05				
Lead	Site specific				


KOMATSU
08.17.2007 13:51


08.17.2007 18:51
1065 GARDENIA



GARDENIA DRIVE

N

TANK 1 EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 48"
B-SOIL TEST BOTTOM SAMPLE @ 65"

CUSTOMER: BEAUFORT MILITARY COMPLEX FAMILY HOUSING	SCALE: 1/16"=1'-0"	EPG INC.
SITE ADDRESS: 1065 GARDENIA DRIVE	SUPPLIER: EPG INC.	P.O. BOX 1096
	DATE: 9/22/2007	MOUNT PLEASANT, SC 29465-1096

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)

0QH0564

Page 1 of 2

TestAmerica
ANALYTICAL TESTING CORPORATION

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

Client Name: EPG — Client #: ____
Address: ____
City/State/Zip Code: ____
Project Manager: ____
Telephone Number: ____ Fax: ____
Sampler Name: (Print Name) MACK JONES
Sampler Signature: ____

Project Name: LAUREL BAY
Project #: EP-2362
Site/Location ID: ____ State: ____
Report To: John Mahoney
Invoice To: ____
Quote #: ____ PO#: ____

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed: ____
Fax Results: Y N

Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other

QC Deliverables: ___ None; X Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: ____

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	HNO3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	BTEX-NAPTH 8260	PAH 8270	REMARKS
1057 GARDENIA Bottom 01	8-16-7	8:30	G							1	2	2	X	X	-01
1057 GARDENIA SIDE 02	8-16-7	8:30	G							1	2	2	X	X	-02
1061 GARDENIA - BOTTOM 01	8-17-7	8:30	G							1	2	2	X	X	-03
1061 GARDENIA - SIDE-02	8-17-7	8:30	G							1	2	2	X	X	-04
1065 GARDENIA - BOTTOM 01	8-17-07	10:00	G							1	2	2	X	X	-05
1065 GARDENIA - SIDE-02	8-17-07	10:00	G							1	2	2	X	X	-06
1141 IRIS - BOTTOM-01	8-18-7	9:00	G							1	2	2	X	X	-07
1141 IRIS - SIDE-02	8-18-7	9:00	G							1	2	2	X	X	-08
1048 - GARDENIA BOTTOM 01	8-18-7	1:00	G							1	2	2	X	X	-09
1048 - GARDEN - SIDE 02	8-18-7	1:00	G							1	2	2	X	X	-10

Margin notes: Tank 1 / Tank 2

Special Instructions:
1057 GARDENIA HAD (2) ~~water~~ SAmples

Relinquished By	Date	Time	Received By	Date	Time
John Mahoney	8/22/07	1215	[signature]	8/22/07	1215
[signature]	8/22/07	1730	[signature]	8/23/07	09:30

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 5.4
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
8626 4331 4975
Method of Shipment: FedEx to TA Orlando

TestAmerica
ANALYTICAL TESTING CORPORATION

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

Client Name: EPG Client #: _____
Address: _____
City/State/Zip Code: _____
Project Manager: _____
Telephone Number: _____ Fax: _____
Sampler Name: (Print Name) Mack Jones
Sampler Signature: _____

Project Name: Laurel Bay
Project #: EP.2362
Site/Location ID: _____ State: _____
Report To: John Mahoney
Invoice To: _____
Quote #: _____ PO#: _____

TAT
X Standard
__ Rush (surcharges may apply)
Date Needed: _____
Fax Results: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: BTEX + Naph. 8260	PAH 8270	REMARKS
Tank 2 1057 Gardenia Bottom	8.16.07	2:30	G							1	2	2	X	X	-11
Tank 2 1057 Gardenia Side	8.16.07	2:30	G							1	2	2	X	X	-12

QC Deliverables
__ None
X Level 2 (Batch QC)
__ Level 3
__ Level 4
Other: _____

Special Instructions:

	Date	Time		Date	Time
Relinquished By: John Mahoney	8/22/07	1215	Received By:	8.22.07	1215
Relinquished By:	8/22/07	1730	Received By:	8/23/07	09:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

LABORATORY COMMENTS:
Init Lab Temp:
Rec Lab Temp: 5.4
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment: 8626 4336 4975 Fed Ex to TA Orlando

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0569
Project: LAUREL BAY
Project Number: EP-2362

Sampled: 08/16/07-08/18/07
Received: 08/23/07

LABORATORY REPORT

Sample ID: 1061 GARDENIA-SIDE-02 - Lab Number: OQH0569-04 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Volatile Organic Compounds by EPA Method 8260B - Cont.											
Surrogate: Toluene-d8 (80-117%)		*100 %*									
General Chemistry Parameters											
Solids	% Dry Solids	83.0	SPS	%	0.500	0.500	1	08/22/07 16:45	AEB	SW-846	7085830
Polyaromatic Hydrocarbons by EPA 8270C											
83-32-9	Acenaphthene	0.0426	U	mg/kg dry	0.0426	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
208-96-8	Acenaphthylene	0.0521	U	mg/kg dry	0.0521	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
120-12-7	Anthracene	0.0473	U	mg/kg dry	0.0473	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
56-55-3	Benzo (a) anthracene	0.0438	U	mg/kg dry	0.0438	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
50-32-8	Benzo (a) pyrene	0.0473	U	mg/kg dry	0.0473	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
205-99-2	Benzo (b) fluoranthene	0.0450	U	mg/kg dry	0.0450	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
191-24-2	Benzo (g,h,i) perylene	0.0319	U	mg/kg dry	0.0319	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
207-08-9	Benzo (k) fluoranthene	0.0544	U	mg/kg dry	0.0544	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
218-01-9	Chrysene	0.0461	U	mg/kg dry	0.0461	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
53-70-3	Dibenz (a,h) anthracene	0.0308	U	mg/kg dry	0.0308	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
206-44-0	Fluoranthene	0.0497	U	mg/kg dry	0.0497	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
86-73-7	Fluorene	0.0509	U	mg/kg dry	0.0509	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
193-39-5	Indeno (1,2,3-cd) pyrene	0.0402	U	mg/kg dry	0.0402	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
91-20-3	Naphthalene	0.0473	U	mg/kg dry	0.0473	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
85-01-8	Phenanthrene	0.0473	U	mg/kg dry	0.0473	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
129-00-0	Pyrene	0.0556	U	mg/kg dry	0.0556	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
90-12-0	1-Methylnaphthalene	0.0426	U	mg/kg dry	0.0426	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
91-57-6	2-Methylnaphthalene	0.0426	U	mg/kg dry	0.0426	0.0793	1	08/31/07 03:22	RLB	SW846 8270C	7085613
Surrogate: Terphenyl-d14 (49-123%)		*79 %*									
Surrogate: 2-Fluorobiphenyl (30-93%)		*68 %*									
Surrogate: Nitrobenzene-d5 (34-87%)		*81 %*									

LABORATORY REPORT

Sample ID: 1065 GARDENIA-BOTTOM-01 - Lab Number: OQH0569-05 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
NA	% Solids	82.2		%.	0.100	0.100	1	08/24/07 16:05	RRP	EPA 160.3	7H24049
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	Benzene	5.22	RL2,U	ug/kg dry	5.22	14.3	50	08/29/07 17:07	JWT	EPA 8260B	7H27020
100-41-4	Ethylbenzene	6.04	RL2,U	ug/kg dry	6.04	14.3	50	08/29/07 17:07	JWT	EPA 8260B	7H27020
91-20-3	Naphthalene	313	RL2	ug/kg dry	7.88	14.3	50	08/29/07 17:07	JWT	EPA 8260B	7H27020
108-88-3	Toluene	12.3	RL2,U	ug/kg dry	12.3	14.3	50	08/29/07 17:07	JWT	EPA 8260B	7H27020
330-20-7	Xylenes, total	7.41	RL2,U	ug/kg dry	7.41	14.3	50	08/29/07 17:07	JWT	EPA 8260B	7H27020
urrogate: 1,2-Dichloroethane-d4 (73-137%)		*94 %*									
urrogate: 4-Bromofluorobenzene (59-118%)		*105 %*									
urrogate: Dibromofluoromethane (55-145%)		*96 %*									
urrogate: Toluene-d8 (80-117%)		*97 %*									
General Chemistry Parameters											

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0569
Project: LAUREL BAY
Project Number: EP-2362

Sampled: 08/16/07-08/18/07
Received: 08/23/07

LABORATORY REPORT
Sample ID: 1065 GARDENIA-BOTTOM-01 - Lab Number: OQH0569-05 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
Solids	% Dry Solids	82.2	SPS	%	0.500	0.500	1	08/22/07 16:45	AEB	SW-846	7085830
Polyaromatic Hydrocarbons by EPA 8270C											
83-32-9	Acenaphthene	0.0433	U	mg/kg dry	0.0433	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
208-96-8	Acenaphthylene	0.0529	U	mg/kg dry	0.0529	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
120-12-7	**Anthracene**	**0.0989**		mg/kg dry	0.0481	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
56-55-3	**Benzo (a) anthracene**	**0.425**		mg/kg dry	0.0445	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
50-32-8	**Benzo (a) pyrene**	**0.171**		mg/kg dry	0.0481	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
205-99-2	**Benzo (b) fluoranthene**	**0.260**		mg/kg dry	0.0457	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
191-24-2	Benzo (g,h,i) perylene	0.0324	U	mg/kg dry	0.0324	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
207-08-9	**Benzo (k) fluoranthene**	**0.159**		mg/kg dry	0.0553	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
218-01-9	**Chrysene**	**0.393**		mg/kg dry	0.0469	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
53-70-3	Dibenz (a,h) anthracene	0.0312	U	mg/kg dry	0.0312	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
206-44-0	**Fluoranthene**	**1.01**		mg/kg dry	0.0505	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
86-73-7	Fluorene	0.0517	U	mg/kg dry	0.0517	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
193-39-5	Indeno (1,2,3-cd) pyrene	0.0409	U	mg/kg dry	0.0409	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
91-20-3	Naphthalene	0.0481	U	mg/kg dry	0.0481	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
85-01-8	**Phenanthrene**	**0.603**		mg/kg dry	0.0481	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
129-00-0	**Pyrene**	**1.18**		mg/kg dry	0.0565	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
90-12-0	**1-Methylnaphthalene**	**0.0473**	I	mg/kg dry	0.0433	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
91-57-6	2-Methylnaphthalene	0.0433	U	mg/kg dry	0.0433	0.0805	1	08/31/07 03:45	RLB	SW846 8270C	7085613
Surrogate: Terphenyl-d14 (49-123%)		*79 %*									
Surrogate: 2-Fluorobiphenyl (30-93%)		*71 %*									
Surrogate: Nitrobenzene-d5 (34-87%)		*84 %*									

LABORATORY REPORT
Sample ID: 1065 GARDENIA-SIDE-02 - Lab Number: OQH0569-06 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
NA	% Solids	84.6		%.	0.100	0.100	1	08/24/07 16:05	RRP	EPA 160.3	7H24049
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	Benzene	0.0786	U	ug/kg dry	0.0786	0.215	1	08/28/07 17:58	JWT	EPA 8260B	7H27020
100-41-4	**Ethylbenzene**	**0.112**	I	ug/kg dry	0.0909	0.215	1	08/28/07 17:58	JWT	EPA 8260B	7H27020
91-20-3	**Naphthalene**	**0.254**		ug/kg dry	0.119	0.215	1	08/28/07 17:58	JWT	EPA 8260B	7H27020
108-88-3	**Toluene**	**0.296**		ug/kg dry	0.186	0.215	1	08/28/07 17:58	JWT	EPA 8260B	7H27020
330-20-7	**Xylenes, total**	**0.370**		ug/kg dry	0.112	0.215	1	08/28/07 17:58	JWT	EPA 8260B	7H27020
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		*112 %*									
Surrogate: 4-Bromofluorobenzene (59-118%)		*100 %*									
Surrogate: Dibromofluoromethane (55-145%)		*106 %*									
Surrogate: Toluene-d8 (80-117%)		*100 %*									
General Chemistry Parameters											
Solids	% Dry Solids	84.6	SPS	%	0.500	0.500	1	08/22/07 16:45	AEB	SW-846	7085830
Polyaromatic Hydrocarbons by EPA 8270C											

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0569
Project: LAUREL BAY
Project Number: EP-2362

Sampled: 08/16/07-08/18/07
Received: 08/23/07

LABORATORY REPORT
Sample ID: 1065 GARDENIA-SIDE-02 - Lab Number: OQH0569-06 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polyaromatic Hydrocarbons by EPA 8270C											
83-32-9	Acenaphthene	0.0423	U	mg/kg dry	0.0423	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
208-96-8	Acenaphthylene	0.0517	U	mg/kg dry	0.0517	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
120-12-7	Anthracene	0.0470	U	mg/kg dry	0.0470	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
56-55-3	**Benzo (a) anthracene**	**0.0447**	I	mg/kg dry	0.0435	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
50-32-8	Benzo (a) pyrene	0.0470	U	mg/kg dry	0.0470	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
205-99-2	Benzo (b) fluoranthene	0.0447	U	mg/kg dry	0.0447	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
191-24-2	Benzo (g,h,i) perylene	0.0317	U	mg/kg dry	0.0317	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
207-08-9	Benzo (k) fluoranthene	0.0541	U	mg/kg dry	0.0541	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
218-01-9	**Chrysene**	**0.0525**	I	mg/kg dry	0.0459	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
53-70-3	Dibenz (a,h) anthracene	0.0306	U	mg/kg dry	0.0306	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
206-44-0	Fluoranthene	0.0494	U	mg/kg dry	0.0494	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
86-73-7	Fluorene	0.0506	U	mg/kg dry	0.0506	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
193-39-5	Indeno (1,2,3-cd) pyrene	0.0400	U	mg/kg dry	0.0400	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
91-20-3	Naphthalene	0.0470	U	mg/kg dry	0.0470	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
85-01-8	Phenanthrene	0.0470	U	mg/kg dry	0.0470	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
129-00-0	**Pyrene**	**0.0631**	I	mg/kg dry	0.0553	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
90-12-0	1-Methylnaphthalene	0.0423	U	mg/kg dry	0.0423	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
91-57-6	2-Methylnaphthalene	0.0423	U	mg/kg dry	0.0423	0.0788	1	08/31/07 04:09	RLB	SW846 8270C	7085613
Surrogate: Terphenyl-d14 (49-123%)		*72 %*									
Surrogate: 2-Fluorobiphenyl (30-93%)		*57 %*									
Surrogate: Nitrobenzene-d5 (34-87%)		*64 %*									

LABORATORY REPORT
Sample ID: 1141 IRIS-BOTTOM-01 - Lab Number: OQH0569-07 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
NA	**% Solids**	**81.9**		%.	0.100	0.100	1	08/24/07 16:05	RRP	EPA 160.3	7H24049
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	Benzene	0.135	U	ug/kg dry	0.135	0.368	1	08/28/07 18:14	JWT	EPA 8260B	7H27020
100-41-4	**Ethylbenzene**	**0.302**	I	ug/kg dry	0.156	0.368	1	08/28/07 18:14	JWT	EPA 8260B	7H27020
91-20-3	**Naphthalene**	**1.65**		ug/kg dry	0.203	0.368	1	08/28/07 18:14	JWT	EPA 8260B	7H27020
108-88-3	**Toluene**	**3.37**		ug/kg dry	0.318	0.368	1	08/28/07 18:14	JWT	EPA 8260B	7H27020
330-20-7	**Xylenes, total**	**0.501**		ug/kg dry	0.191	0.368	1	08/28/07 18:14	JWT	EPA 8260B	7H27020
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		*104 %*									
Surrogate: 4-Bromofluorobenzene (59-118%)		*80 %*									
Surrogate: Dibromofluoromethane (55-145%)		*105 %*									
Surrogate: Toluene-d8 (80-117%)		*96 %*									
General Chemistry Parameters											
Solids	**% Dry Solids**	**81.9**	SPS	%	0.500	0.500	1	08/22/07 16:45	AEB	SW-846	7085830
Polyaromatic Hydrocarbons by EPA 8270C											
83-32-9	Acenaphthene	0.0427	U	mg/kg dry	0.0427	0.0794	1	08/31/07 04:33	RLB	SW846 8270C	7085613
208-96-8	Acenaphthylene	0.0522	U	mg/kg dry	0.0522	0.0794	1	08/31/07 04:33	RLB	SW846 8270C	7085613

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report

Date Received State Use Only

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

I. OWNERSHIP OF UST (S)

MCAS Beaufort, Commanding Officer Attn: NREAO (Craig Ehde)
Owner Name (Corporation, Individual, Public Agency, Other)

P.O. Box 55001
Mailing Address

Beaufort,	South Carolina	29904-5001
City	State	Zip Code

843	228-7317	Craig Ehde
Area Code	Telephone Number	Contact Person

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #
Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company Site Identifier

1065 Gardenia St., 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

	1065 Gardenia				
A. Product...(ex. Gas, Kerosene).....	Heating oil				
B. Capacity..(ex. 1k, 2k).....	280 gal				
C. Age.....	Late 1950s				
D. Construction Material..(ex. Steel, FRP).....	Steel				
E. Month/Year of Last Use.....	Mid 1980s				
F. Depth (ft.) To Base of Tank.....	5'				
G. Spill Prevention Equipment Y/N.....	No				
H. Overfill Prevention Equipment Y/N.....	No				
I. Method of Closure Removed/Filled.....	Removed				
J. Date Tanks Removed/Filled.....	7/21/2015				
K. Visible Corrosion or Pitting Y/N.....	Yes				
L. Visible Holes Y/N.....	Yes				

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 1065Gardenia was removed from the ground and disposed at a Subtitle "D" landfill. See Attachment "A."

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
UST 1065Gardenia 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 throughout the tank.

VII. PIPING INFORMATION

1065 Gardenia				
Steel & Copper				
N/A				
N/A				
Suction				
No				
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. The 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 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
1065 Gardenia	Excav at fill end	Soil	Sandy	5'	7/21/15 1300 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.

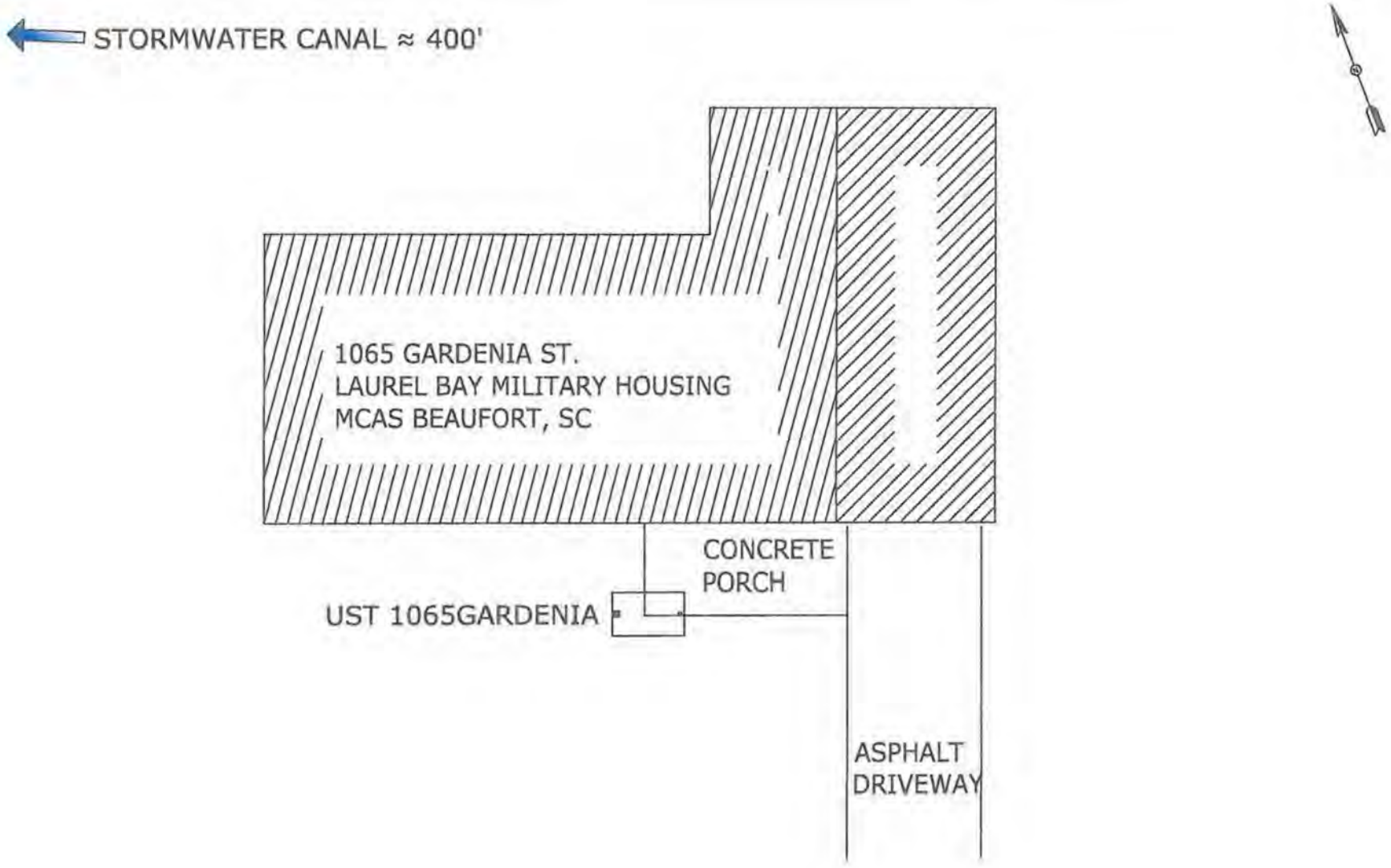
XII. RECEPTORS

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

XIII. SITE MAP

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

(Attach Site Map Here)

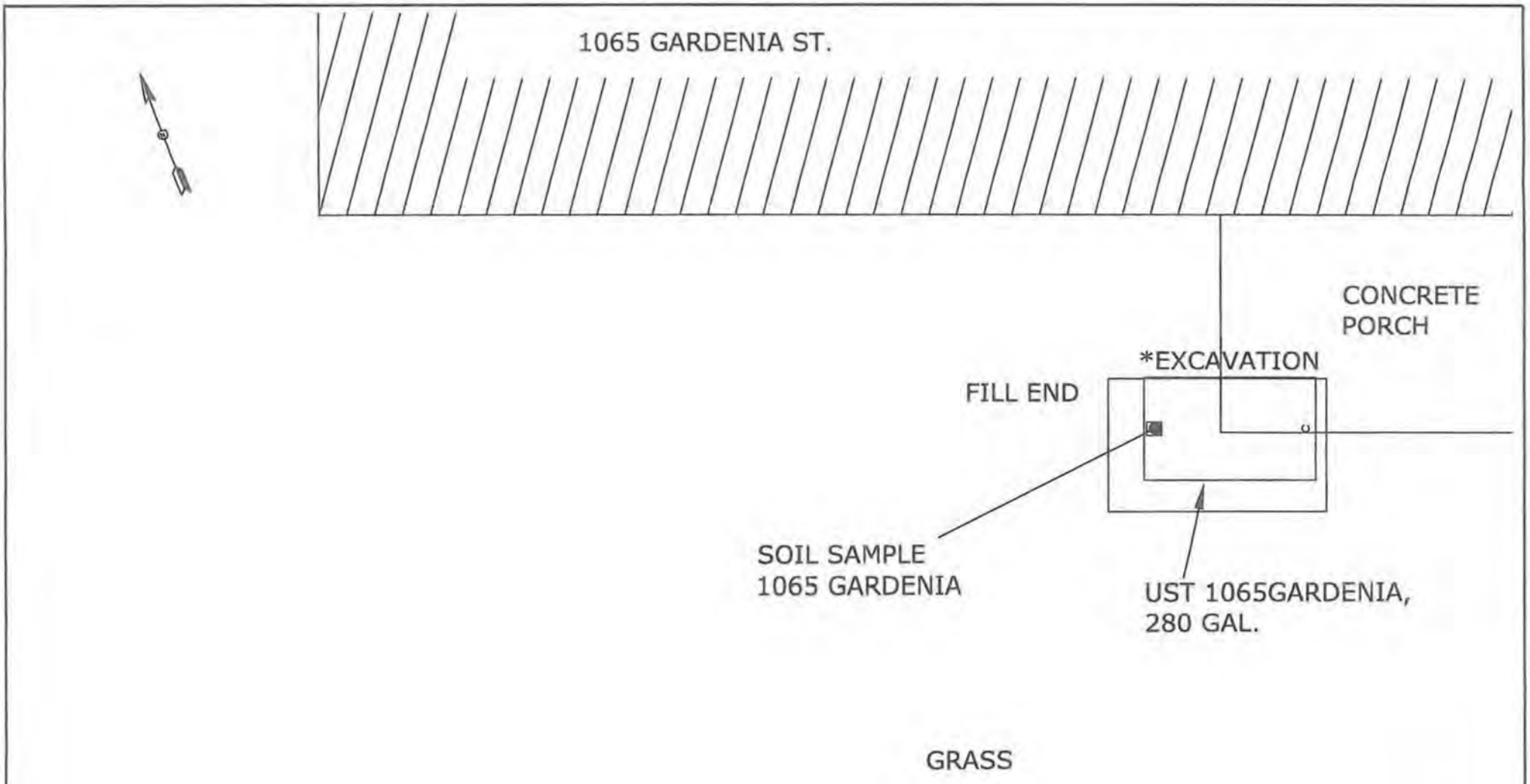


UST 1065GARDENIA WAS
24" BELOW GRADE.

GRAPHIC SCALE

0 5' 10' 20'

SBG-EEG 398 E. 5 NORTH ST., SUITE C SUMMERVILLE, SC 29483-6954	FIGURE 1 SITE MAP 1065 GARDENIA ST., LAUREL BAY MCAS BEAUFORT SC
	SCALE: GRAPHIC | DWG DATE AUG 2015



* A PORTION OF THE CONCRETE PORCH WAS REMOVED TO FACILITATE TANK EXTRACTION.

GRAPHIC SCALE
0 5'

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

FIGURE 2 UST SAMPLE LOCATIONS
1065 GARDENIA ST., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE AUG 2015

Picture 1: Location of UST 1065Gardenia.

Picture 2: UST 1065Gardenia.

Picture 3: Tank pit.

Picture 4: Site after completion of tank removal.

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	1065 Gardenia						
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

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-83650-1
Client Project/Site: Laurel Bay Housing Project

For:
Small Business Group Inc.
10179 Highway 78
Ladson, South Carolina 29456

Attn: Tom McElwee

Authorized for release by:
8/4/2015 12:31:39 PM

Ken Hayes, Project Manager II
(615)301-5035
ken.hayes@testamericainc.com

Table of Contents

Sample Summary

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-83650-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-83650-1	1065 Gardenia	Soil	07/21/15 13:00	07/25/15 08:20
490-83650-2	1063 Gardenia	Soil	07/22/15 14:15	07/25/15 08:20
490-83650-3	1141 Iris	Soil	07/23/15 10:45	07/25/15 08:20

Job ID: 490-83650-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-83650-1

Comments
No additional comments.

Receipt
The samples were received on 7/25/2015 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7° C.

GC/MS VOA
Method(s) 8260B: Batch 490-269466 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and this test was canceled at client request. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 490-269642.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: 1065 Gardenia

Date Collected: 07/21/15 13:00
Date Received: 07/25/15 08:20

Lab Sample ID: 490-83650-1

Matrix: Soil

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00222	0.000744	mg/Kg		07/21/15 12:00	07/30/15 22:45	1
Ethylbenzene	ND		0.00222	0.000744	mg/Kg		07/21/15 12:00	07/30/15 22:45	1
Naphthalene	ND		0.00524	0.00178	mg/Kg		07/21/15 12:00	07/31/15 15:44	1
Toluene	ND		0.00222	0.000822	mg/Kg		07/21/15 12:00	07/30/15 22:45	1
Xylenes, Total	ND		0.00555	0.00137	mg/Kg		07/21/15 12:00	07/30/15 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*	*07/21/15 12:00*	*07/30/15 22:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*	*07/21/15 12:00*	*07/31/15 15:44*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*07/21/15 12:00*	*07/30/15 22:45*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/21/15 12:00*	*07/31/15 15:44*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*07/21/15 12:00*	*07/30/15 22:45*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*07/21/15 12:00*	*07/31/15 15:44*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*07/21/15 12:00*	*07/30/15 22:45*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*07/21/15 12:00*	*07/31/15 15:44*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0822	0.0123	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Acenaphthylene	ND		0.0822	0.0110	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Anthracene	ND		0.0822	0.0110	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Benzo[a]anthracene	ND		0.0822	0.0184	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Benzo[a]pyrene	ND		0.0822	0.0147	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Benzo[b]fluoranthene	ND		0.0822	0.0147	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Benzo[g,h,i]perylene	ND		0.0822	0.0110	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Benzo[k]fluoranthene	ND		0.0822	0.0172	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
1-Methylnaphthalene	ND		0.0822	0.0172	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Pyrene	ND		0.0822	0.0147	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Phenanthrene	ND		0.0822	0.0110	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Chrysene	ND		0.0822	0.0110	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Dibenz(a,h)anthracene	ND		0.0822	0.00859	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Fluoranthene	ND		0.0822	0.0110	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Fluorene	ND		0.0822	0.0147	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Indeno[1,2,3-cd]pyrene	ND		0.0822	0.0123	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
Naphthalene	ND		0.0822	0.0110	mg/Kg		07/28/15 09:37	07/28/15 21:50	1
2-Methylnaphthalene	ND		0.0822	0.0196	mg/Kg		07/28/15 09:37	07/28/15 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*29 - 120*	*07/28/15 09:37*	*07/28/15 21:50*	*1*
Terphenyl-d14 (Surr)	*81*		*13 - 120*	*07/28/15 09:37*	*07/28/15 21:50*	*1*
Nitrobenzene-d5 (Surr)	*73*		*27 - 120*	*07/28/15 09:37*	*07/28/15 21:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80		0.10	0.10	%			07/28/15 10:30	1

Client Sample ID: 1063 Gardenia

Date Collected: 07/22/15 14:15
Date Received: 07/25/15 08:20

Lab Sample ID: 490-83650-2

Matrix: Soil

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00219	0.000735	mg/Kg	☼	07/22/15 13:15	07/30/15 23:16	1
Ethylbenzene	0.00176	J	0.00219	0.000735	mg/Kg	☼	07/22/15 13:15	07/30/15 23:16	1
Naphthalene	0.0138		0.00549	0.00187	mg/Kg	☼	07/22/15 13:15	07/30/15 23:16	1
Toluene	ND		0.00219	0.000812	mg/Kg	☼	07/22/15 13:15	07/30/15 23:16	1
Xylenes, Total	0.00574		0.00549	0.00135	mg/Kg	☼	07/22/15 13:15	07/30/15 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*	*07/22/15 13:15*	*07/30/15 23:16*	*1*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*07/22/15 13:15*	*07/30/15 23:16*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*	*07/22/15 13:15*	*07/30/15 23:16*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*07/22/15 13:15*	*07/30/15 23:16*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.264		0.0918	0.0137	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Acenaphthylene	0.0606	J	0.0918	0.0123	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Anthracene	0.0860	J	0.0918	0.0123	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Benzo[a]anthracene	0.420		0.0918	0.0206	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Benzo[a]pyrene	0.178		0.0918	0.0164	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Benzo[b]fluoranthene	0.325		0.0918	0.0164	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Benzo[g,h,i]perylene	0.0482	J	0.0918	0.0123	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Benzo[k]fluoranthene	0.125		0.0918	0.0192	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
1-Methylnaphthalene	0.872		0.0918	0.0192	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Pyrene	1.04		0.0918	0.0164	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Phenanthrene	0.747		0.0918	0.0123	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Chrysene	0.384		0.0918	0.0123	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Dibenz(a,h)anthracene	ND		0.0918	0.00959	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Fluoranthene	1.09		0.0918	0.0123	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Fluorene	0.370		0.0918	0.0164	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Indeno[1,2,3-cd]pyrene	0.0551	J	0.0918	0.0137	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
Naphthalene	0.188		0.0918	0.0123	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1
2-Methylnaphthalene	0.959		0.0918	0.0219	mg/Kg	☼	07/28/15 09:37	07/28/15 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*29 - 120*	*07/28/15 09:37*	*07/28/15 22:16*	*1*
Terphenyl-d14 (Surr)	*76*		*13 - 120*	*07/28/15 09:37*	*07/28/15 22:16*	*1*
Nitrobenzene-d5 (Surr)	*73*		*27 - 120*	*07/28/15 09:37*	*07/28/15 22:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	72		0.10	0.10	%			07/28/15 10:30	1

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-83650-1

Client Sample ID: 1141 Iris

Date Collected: 07/23/15 10:45
Date Received: 07/25/15 08:20

Lab Sample ID: 490-83650-3

Matrix: Soil

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00223	0.000748	mg/Kg		07/23/15 09:45	07/30/15 23:47	1
Ethylbenzene	ND		0.00223	0.000748	mg/Kg		07/23/15 09:45	07/30/15 23:47	1
Naphthalene	ND		0.00558	0.00190	mg/Kg		07/23/15 09:45	07/30/15 23:47	1
Toluene	ND		0.00223	0.000826	mg/Kg		07/23/15 09:45	07/30/15 23:47	1
Xylenes, Total	ND		0.00558	0.00137	mg/Kg		07/23/15 09:45	07/30/15 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*	*07/23/15 09:45*	*07/30/15 23:47*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*07/23/15 09:45*	*07/30/15 23:47*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*	*07/23/15 09:45*	*07/30/15 23:47*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*07/23/15 09:45*	*07/30/15 23:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0770	0.0115	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Acenaphthylene	ND		0.0770	0.0103	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Anthracene	ND		0.0770	0.0103	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Benzo[a]anthracene	ND		0.0770	0.0172	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Benzo[a]pyrene	ND		0.0770	0.0138	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Benzo[b]fluoranthene	ND		0.0770	0.0138	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Benzo[g,h,i]perylene	ND		0.0770	0.0103	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Benzo[k]fluoranthene	ND		0.0770	0.0161	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
1-Methylnaphthalene	0.0943		0.0770	0.0161	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Pyrene	ND		0.0770	0.0138	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Phenanthrene	0.0429	J	0.0770	0.0103	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Chrysene	ND		0.0770	0.0103	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Dibenz(a,h)anthracene	ND		0.0770	0.00804	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Fluoranthene	ND		0.0770	0.0103	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Fluorene	ND		0.0770	0.0138	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Indeno[1,2,3-cd]pyrene	ND		0.0770	0.0115	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
Naphthalene	ND		0.0770	0.0103	mg/Kg		07/28/15 09:37	07/28/15 22:42	1
2-Methylnaphthalene	0.119		0.0770	0.0184	mg/Kg		07/28/15 09:37	07/28/15 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*29 - 120*	*07/28/15 09:37*	*07/28/15 22:42*	*1*
Terphenyl-d14 (Surr)	*78*		*13 - 120*	*07/28/15 09:37*	*07/28/15 22:42*	*1*
Nitrobenzene-d5 (Surr)	*73*		*27 - 120*	*07/28/15 09:37*	*07/28/15 22:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86		0.10	0.10	%			07/28/15 10:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-269466/7
Matrix: Solid
Analysis Batch: 269466

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			07/30/15 19:07	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			07/30/15 19:07	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			07/30/15 19:07	1
Toluene	ND		0.00200	0.000740	mg/Kg			07/30/15 19:07	1
Xylenes, Total	ND		0.00500	0.00123	mg/Kg			07/30/15 19:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*07/30/15 19:07*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/30/15 19:07*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/30/15 19:07*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/30/15 19:07*	*1*

Lab Sample ID: LCS 490-269466/3
Matrix: Solid
Analysis Batch: 269466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04310		mg/Kg		86	75 - 127
Ethylbenzene	0.0500	0.04288		mg/Kg		86	80 - 134
Naphthalene	0.0500	0.04174		mg/Kg		83	69 - 150
Toluene	0.0500	0.04139		mg/Kg		83	80 - 132
Xylenes, Total	0.100	0.08346		mg/Kg		83	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 490-269466/4
Matrix: Solid
Analysis Batch: 269466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04291		mg/Kg		86	75 - 127	0	50
Ethylbenzene	0.0500	0.04176		mg/Kg		84	80 - 134	3	50
Naphthalene	0.0500	0.04255		mg/Kg		85	69 - 150	2	50
Toluene	0.0500	0.04094		mg/Kg		82	80 - 132	1	50
Xylenes, Total	0.100	0.08246		mg/Kg		82	80 - 137	1	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-269642/7
Matrix: Solid
Analysis Batch: 269642

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			07/31/15 14:07	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			07/31/15 14:07	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			07/31/15 14:07	1
Toluene	ND		0.00200	0.000740	mg/Kg			07/31/15 14:07	1
Xylenes, Total	ND		0.00500	0.00123	mg/Kg			07/31/15 14:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*07/31/15 14:07*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/31/15 14:07*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/31/15 14:07*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/31/15 14:07*	*1*

Lab Sample ID: LCS 490-269642/3
Matrix: Solid
Analysis Batch: 269642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04140		mg/Kg		83	75 - 127
Ethylbenzene	0.0500	0.04266		mg/Kg		85	80 - 134
Naphthalene	0.0500	0.04339		mg/Kg		87	69 - 150
Toluene	0.0500	0.04105		mg/Kg		82	80 - 132
Xylenes, Total	0.100	0.08325		mg/Kg		83	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-268561/1-A
Matrix: Solid
Analysis Batch: 268573

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 268561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Anthracene	ND		0.0670	0.00900	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Pyrene	ND		0.0670	0.0120	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		07/28/15 09:37	07/28/15 15:15	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-268561/1-A
Matrix: Solid
Analysis Batch: 268573

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 268561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0670	0.00900	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Fluorene	ND		0.0670	0.0120	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		07/28/15 09:37	07/28/15 15:15	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		07/28/15 09:37	07/28/15 15:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*29 - 120*	*07/28/15 09:37*	*07/28/15 15:15*	*1*
Terphenyl-d14 (Surr)	*89*		*13 - 120*	*07/28/15 09:37*	*07/28/15 15:15*	*1*
Nitrobenzene-d5 (Surr)	*82*		*27 - 120*	*07/28/15 09:37*	*07/28/15 15:15*	*1*

Lab Sample ID: LCS 490-268561/2-A
Matrix: Solid
Analysis Batch: 268573

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 268561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1.67	1.219		mg/Kg		73	38 - 120
Anthracene	1.67	1.345		mg/Kg		81	46 - 124
Benzo[a]anthracene	1.67	1.340		mg/Kg		80	45 - 120
Benzo[a]pyrene	1.67	1.349		mg/Kg		81	45 - 120
Benzo[b]fluoranthene	1.67	1.342		mg/Kg		81	42 - 120
Benzo[g,h,i]perylene	1.67	1.332		mg/Kg		80	38 - 120
Benzo[k]fluoranthene	1.67	1.421		mg/Kg		85	42 - 120
1-Methylnaphthalene	1.67	1.387		mg/Kg		83	32 - 120
Pyrene	1.67	1.432		mg/Kg		86	43 - 120
Phenanthrene	1.67	1.308		mg/Kg		78	45 - 120
Chrysene	1.67	1.317		mg/Kg		79	43 - 120
Dibenz(a,h)anthracene	1.67	1.365		mg/Kg		82	32 - 128
Fluoranthene	1.67	1.349		mg/Kg		81	46 - 120
Fluorene	1.67	1.340		mg/Kg		80	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.309		mg/Kg		79	41 - 121
Naphthalene	1.67	1.294		mg/Kg		78	32 - 120
2-Methylnaphthalene	1.67	1.304		mg/Kg		78	28 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*29 - 120*
Terphenyl-d14 (Surr)	*87*		*13 - 120*
Nitrobenzene-d5 (Surr)	*88*		*27 - 120*

Lab Sample ID: LCSD 490-268561/3-A
Matrix: Solid
Analysis Batch: 268573

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 268561

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	1.67	1.196		mg/Kg		72	38 - 120	2	50
Anthracene	1.67	1.336		mg/Kg		80	46 - 124	1	49

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-268561/3-A
Matrix: Solid
Analysis Batch: 268573

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 268561

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	1.67	1.331		mg/Kg		80	45 - 120	1	50
Benzo[a]pyrene	1.67	1.350		mg/Kg		81	45 - 120	0	50
Benzo[b]fluoranthene	1.67	1.326		mg/Kg		80	42 - 120	1	50
Benzo[g,h,i]perylene	1.67	1.323		mg/Kg		79	38 - 120	1	50
Benzo[k]fluoranthene	1.67	1.442		mg/Kg		86	42 - 120	1	45
1-Methylnaphthalene	1.67	1.426		mg/Kg		86	32 - 120	3	50
Pyrene	1.67	1.419		mg/Kg		85	43 - 120	1	50
Phenanthrene	1.67	1.294		mg/Kg		78	45 - 120	1	50
Chrysene	1.67	1.301		mg/Kg		78	43 - 120	1	49
Dibenz(a,h)anthracene	1.67	1.350		mg/Kg		81	32 - 128	1	50
Fluoranthene	1.67	1.362		mg/Kg		82	46 - 120	1	50
Fluorene	1.67	1.337		mg/Kg		80	42 - 120	0	50
Indeno[1,2,3-cd]pyrene	1.67	1.313		mg/Kg		79	41 - 121	0	50
Naphthalene	1.67	1.334		mg/Kg		80	32 - 120	3	50
2-Methylnaphthalene	1.67	1.334		mg/Kg		80	28 - 120	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*29 - 120*
Terphenyl-d14 (Surr)	*86*		*13 - 120*
Nitrobenzene-d5 (Surr)	*89*		*27 - 120*

Lab Sample ID: 490-83596-G-1-B MS
Matrix: Solid
Analysis Batch: 268573

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 268561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		1.64	0.9547		mg/Kg		58	25 - 120
Anthracene	ND		1.64	1.069		mg/Kg		65	28 - 125
Benzo[a]anthracene	ND		1.64	1.057		mg/Kg		64	23 - 120
Benzo[a]pyrene	ND		1.64	1.061		mg/Kg		65	15 - 128
Benzo[b]fluoranthene	ND		1.64	1.058		mg/Kg		64	12 - 133
Benzo[g,h,i]perylene	ND		1.64	1.032		mg/Kg		63	22 - 120
Benzo[k]fluoranthene	ND		1.64	1.116		mg/Kg		68	28 - 120
1-Methylnaphthalene	ND		1.64	1.069		mg/Kg		65	10 - 120
Pyrene	ND		1.64	1.141		mg/Kg		69	20 - 123
Phenanthrene	ND		1.64	1.030		mg/Kg		63	21 - 122
Chrysene	ND		1.64	1.042		mg/Kg		63	20 - 120
Dibenz(a,h)anthracene	ND		1.64	1.059		mg/Kg		64	12 - 128
Fluoranthene	ND		1.64	1.079		mg/Kg		66	10 - 143
Fluorene	ND		1.64	1.061		mg/Kg		65	20 - 120
Indeno[1,2,3-cd]pyrene	ND		1.64	1.029		mg/Kg		63	22 - 121
Naphthalene	ND		1.64	0.9924		mg/Kg		60	10 - 120
2-Methylnaphthalene	ND		1.64	1.001		mg/Kg		61	13 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*58*		*29 - 120*
Terphenyl-d14 (Surr)	*68*		*13 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 490-83596-G-1-B MS
Matrix: Solid
Analysis Batch: 268573

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 268561

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	*63*		*27 - 120*

Lab Sample ID: 490-83596-G-1-C MSD
Matrix: Solid
Analysis Batch: 268573

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 268561

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	ND		1.64	0.7399		mg/Kg		45	25 - 120	25	50
Anthracene	ND		1.64	0.8269		mg/Kg		51	28 - 125	26	49
Benzo[a]anthracene	ND		1.64	0.8182		mg/Kg		50	23 - 120	25	50
Benzo[a]pyrene	ND		1.64	0.8152		mg/Kg		50	15 - 128	26	50
Benzo[b]fluoranthene	ND		1.64	0.8164		mg/Kg		50	12 - 133	26	50
Benzo[g,h,i]perylene	ND		1.64	0.7932		mg/Kg		48	22 - 120	26	50
Benzo[k]fluoranthene	ND		1.64	0.8460		mg/Kg		52	28 - 120	28	45
1-Methylnaphthalene	ND		1.64	0.8431		mg/Kg		52	10 - 120	24	50
Pyrene	ND		1.64	0.8717		mg/Kg		53	20 - 123	27	50
Phenanthrene	ND		1.64	0.7858		mg/Kg		48	21 - 122	27	50
Chrysene	ND		1.64	0.7939		mg/Kg		49	20 - 120	27	49
Dibenz(a,h)anthracene	ND		1.64	0.8132		mg/Kg		50	12 - 128	26	50
Fluoranthene	ND		1.64	0.8412		mg/Kg		51	10 - 143	25	50
Fluorene	ND		1.64	0.8250		mg/Kg		50	20 - 120	25	50
Indeno[1,2,3-cd]pyrene	ND		1.64	0.7780		mg/Kg		48	22 - 121	28	50
Naphthalene	ND		1.64	0.7799		mg/Kg		48	10 - 120	24	50
2-Methylnaphthalene	ND		1.64	0.7927		mg/Kg		48	13 - 120	23	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	*64*		*29 - 120*
Terphenyl-d14 (Surr)	*73*		*13 - 120*
Nitrobenzene-d5 (Surr)	*69*		*27 - 120*

Method: Moisture - Percent Moisture

Lab Sample ID: 490-83612-C-1 DU
Matrix: Solid
Analysis Batch: 268640

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	75		74		%		1	20

GC/MS VOA

Prep Batch: 268988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-83650-1	1065 Gardenia	Total/NA	Soil	5035	
490-83650-1	1065 Gardenia	Total/NA	Soil	5035	
490-83650-2	1063 Gardenia	Total/NA	Soil	5035	
490-83650-3	1141 Iris	Total/NA	Soil	5035	

Analysis Batch: 269466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-83650-1	1065 Gardenia	Total/NA	Soil	8260B	268988
490-83650-2	1063 Gardenia	Total/NA	Soil	8260B	268988
490-83650-3	1141 Iris	Total/NA	Soil	8260B	268988
LCS 490-269466/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-269466/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-269466/7	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 269642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-83650-1	1065 Gardenia	Total/NA	Soil	8260B	268988
LCS 490-269642/3	Lab Control Sample	Total/NA	Solid	8260B	
MB 490-269642/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 268561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-83596-G-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-83596-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
490-83650-1	1065 Gardenia	Total/NA	Soil	3550C	
490-83650-2	1063 Gardenia	Total/NA	Soil	3550C	
490-83650-3	1141 Iris	Total/NA	Soil	3550C	
LCS 490-268561/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 490-268561/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
MB 490-268561/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 268573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-83596-G-1-B MS	Matrix Spike	Total/NA	Solid	8270D	268561
490-83596-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	268561
490-83650-1	1065 Gardenia	Total/NA	Soil	8270D	268561
490-83650-2	1063 Gardenia	Total/NA	Soil	8270D	268561
490-83650-3	1141 Iris	Total/NA	Soil	8270D	268561
LCS 490-268561/2-A	Lab Control Sample	Total/NA	Solid	8270D	268561
LCSD 490-268561/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	268561
MB 490-268561/1-A	Method Blank	Total/NA	Solid	8270D	268561

General Chemistry

Analysis Batch: 268640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-83612-C-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-83650-1	1065 Gardenia	Total/NA	Soil	Moisture	

General Chemistry (Continued)

Analysis Batch: 268640 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-83650-2	1063 Gardenia	Total/NA	Soil	Moisture	
490-83650-3	1141 Iris	Total/NA	Soil	Moisture	

Lab Chronicle

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-83650-1

Client Sample ID: 1065 Gardenia

Date Collected: 07/21/15 13:00
Date Received: 07/25/15 08:20

Lab Sample ID: 490-83650-1
Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.608 g	5.00 mL	268988	07/21/15 12:00	MAH	TAL NSH
Total/NA	Analysis	8260B		1	5.608 g	5.00 mL	269466	07/30/15 22:45	WC1	TAL NSH
Total/NA	Prep	5035			5.942 g	5.00 mL	268988	07/21/15 12:00	MAH	TAL NSH
Total/NA	Analysis	8260B		1	5.942 g	5.00 mL	269642	07/31/15 15:44	WC1	TAL NSH
Total/NA	Prep	3550C			30.46 g	1 mL	268561	07/28/15 09:37	LDC	TAL NSH
Total/NA	Analysis	8270D		1	30.46 g	1 mL	268573	07/28/15 21:50	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			268640	07/28/15 10:30	MAA	TAL NSH

Client Sample ID: 1063 Gardenia

Date Collected: 07/22/15 14:15
Date Received: 07/25/15 08:20

Lab Sample ID: 490-83650-2
Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.323 g	5.00 mL	268988	07/22/15 13:15	MAH	TAL NSH
Total/NA	Analysis	8260B		1	6.323 g	5.00 mL	269466	07/30/15 23:16	WC1	TAL NSH
Total/NA	Prep	3550C			30.38 g	1 mL	268561	07/28/15 09:37	LDC	TAL NSH
Total/NA	Analysis	8270D		1	30.38 g	1 mL	268573	07/28/15 22:16	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			268640	07/28/15 10:30	MAA	TAL NSH

Client Sample ID: 1141 Iris

Date Collected: 07/23/15 10:45
Date Received: 07/25/15 08:20

Lab Sample ID: 490-83650-3
Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.192 g	5.00 mL	268988	07/23/15 09:45	MAH	TAL NSH
Total/NA	Analysis	8260B		1	5.192 g	5.00 mL	269466	07/30/15 23:47	WC1	TAL NSH
Total/NA	Prep	3550C			30.28 g	1 mL	268561	07/28/15 09:37	LDC	TAL NSH
Total/NA	Analysis	8270D		1	30.28 g	1 mL	268573	07/28/15 22:42	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			268640	07/28/15 10:30	MAA	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-83650-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Small Business Group Inc.
Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-83650-1

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below

Authority	Program	EPA Region	Certification ID	Expiration Date
North Carolina (WW/SW)	State Program	4	387	12-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Soil	Percent Solids

South Carolina	State Program	4	84009 (001)	02-28-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3550C	Soil	1-Methylnaphthalene
Moisture		Soil	Percent Solids

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-83650 Chain of Custody

Cooler Received/Opened On 7/25/2015 @ 0820

1. Tracking # 3480 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 0.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)..NO...NA

If yes, how many and where: (2) Front/Back

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)..NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) MDM

7. Were custody seals on containers: YES (NO) and intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? (YES)..NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES..(NO)..NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...(NA)

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment

Loc: 490
83650

8/4/2015

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 #: SBG - EEG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

Site State: SC

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

PO#: 1406

Telephone Number: 843.412.2097 Fax No.: (843) 412-2027

TA Quote #:

Sampler Name: (Print) Brett 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	HNO_3 (Red Label)	HCl (Blue Label) Sodium Bisulfate	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass/Yellow Label)	None (Block Label)	Other (Specify) Methanol	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX + Napth - 8260	PAH - 8270D	RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
1065 GARDENIA	7/21/15	1300	5	X					2				2	1					X		X	X				
1063 GARDENIA	7/22/15	1415	5	X					2				2	1					X		X	X				
1141 IRIS	7/23/15	1045	5	X					2				2	1					X		X	X				

Special Instructions:

Laboratory Comments:
Temperature Upon Receipt: 0.7
VOCs Free of Headspace? Y N

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	7/24/15	0930	Fedex		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			TAN	7-25-15	0820

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-83650-1

Login Number: 83650
List Number: 1
Creator: Armstrong, Daniel

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT A

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

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

GENERATOR

3. Generator's Mailing Address: MCAS BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29904 4. Generator's Phone 843-879-0411	Generator's Site Address (if different than mailing):	A. Manifest Number WMNA 01519122 B. State Generator's ID
5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY DRIVE RIDGELAND, SC 29936	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 843-987-4643

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. HEATING OIL TANK FILLED WITH SAND WM Profile # 102655SC	1				
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

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 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 Name	Signature "On behalf of"	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

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	Signature	Month	Day	Year

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

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

Appendix C
Laboratory Analytical Report - Groundwater

CDM - AECOM
Multimedia Joint Venture

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LAUREL BAY SAMPLING 7/28/08
Pace Project No.: 9224472

Sample: 1056 GARDENIA A **Lab ID: 9224472006** Collected: 07/28/08 11:15 Received: 07/30/08 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Dibromofluoromethane (S)	103	%	85-115	1		08/01/08 07:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120	1		08/01/08 07:28	17060-07-0	
Toluene-d8 (S)	101	%	70-120	1		08/01/08 07:28	2037-26-5	

Sample: 1065 GARDENIA A **Lab ID: 9224472007** Collected: 07/28/08 11:25 Received: 07/30/08 17:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE 3510	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	2.0	1	07/31/08 00:00	08/12/08 07:52	83-32-9	
Acenaphthylene	ND	ug/L	1.5	1	07/31/08 00:00	08/12/08 07:52	208-96-8	
Anthracene	**0.12**	ug/L	0.050	1	07/31/08 00:00	08/12/08 07:52	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	07/31/08 00:00	08/12/08 07:52	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.20	1	07/31/08 00:00	08/12/08 07:52	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.30	1	07/31/08 00:00	08/12/08 07:52	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	07/31/08 00:00	08/12/08 07:52	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	1	07/31/08 00:00	08/12/08 07:52	207-08-9	
Chrysene	ND	ug/L	0.10	1	07/31/08 00:00	08/12/08 07:52	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.20	1	07/31/08 00:00	08/12/08 07:52	53-70-3	
Fluoranthene	ND	ug/L	0.30	1	07/31/08 00:00	08/12/08 07:52	206-44-0	
Fluorene	**0.95**	ug/L	0.31	1	07/31/08 00:00	08/12/08 07:52	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	1	07/31/08 00:00	08/12/08 07:52	193-39-5	
1-Methylnaphthalene	ND	ug/L	2.0	1	07/31/08 00:00	08/12/08 07:52	90-12-0	
2-Methylnaphthalene	**10.8**	ug/L	2.0	1	07/31/08 00:00	08/12/08 07:52	91-57-6	
Naphthalene	**3.4**	ug/L	1.5	1	07/31/08 00:00	08/12/08 07:52	91-20-3	
Phenanthrene	**1.4**	ug/L	0.20	1	07/31/08 00:00	08/12/08 07:52	85-01-8	
Pyrene	**0.12**	ug/L	0.10	1	07/31/08 00:00	08/12/08 07:52	129-00-0	
Nitrobenzene-d5 (S)	59	%	50-150	1	07/31/08 00:00	08/12/08 07:52	4165-60-0	
2-Fluorobiphenyl (S)	58	%	50-150	1	07/31/08 00:00	08/12/08 07:52	321-60-8	
Terphenyl-d14 (S)	62	%	50-150	1	07/31/08 00:00	08/12/08 07:52	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/01/08 20:07	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/01/08 20:07	100-41-4	
Naphthalene	**5.7**	ug/L	1.0	1		08/01/08 20:07	91-20-3	
Toluene	ND	ug/L	1.0	1		08/01/08 20:07	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		08/01/08 20:07	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/01/08 20:07	95-47-6	
4-Bromofluorobenzene (S)	95	%	87-109	1		08/01/08 20:07	460-00-4	
Dibromofluoromethane (S)	98	%	85-115	1		08/01/08 20:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120	1		08/01/08 20:07	17060-07-0	
Toluene-d8 (S)	99	%	70-120	1		08/01/08 20:07	2037-26-5	

Appendix D
Regulatory Correspondence

CDM - AECOM
Multimedia Joint Venture

D H E C

PROMOTE PROTECT PROSPER

Promoting and protecting the health of the public and the environment

13 August 2008

Beaufort Military Complex Family Housing
ATTN: Kyle Broadfoot
1510 Laurel Bay Blvd.
Beaufort, SC 29906

Re: MCAS – Laurel Bay Housing – 1065 Gardenia
Site ID # 03975
UST Closure Reports received 31 January 2008
Beaufort County

Dear Mr. Broadfoot:

The purpose of this letter is to verify a release of fuel oil at the referenced residence. According to information received by the Department, the source of the release is from past onsite use of fuel oil USTs. To date, initial activities by the facility have included tank removal and soil sampling. Based on the information contained in the closure report, a potential violation of the South Carolina Pollution Control Act has occurred in that there has been an unauthorized release of petroleum to the environment.

Additional assessment activities are required for this site. Specifically the Department requests that a groundwater sample be collected from this site. Please note, the Department approved a groundwater sampling proposal for Laurel Bay submitted by MCAS under separate cover dated 16 June 2008.

Should you have any questions, please contact me at 803-898-3553 (office phone), 803-898-2893 (fax) or bishopma@dhec.sc.gov.

Sincerely,

Michael Bishop, Hydrogeologist
Groundwater Quality Section
Bureau of Water

cc: Region 8 District EQC (via pdf)
MCAS, Commanding Officer, Attention: S-4 NREAO (William Drawdy) (via pdf)
Technical File

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

19 December 2008

Commanding Officer
ATTN: S-4 NREAO (Craig Ehde)
MCAS
PO Box 55001
Beaufort, SC 29904-5001

Re: MCAS – Laurel Bay Housing – 1065 Gardenia
Site ID # 03975
Groundwater Sampling Results received 6 November 2008
Beaufort County

Dear Mr. Ehde:

Per the Department's request, a groundwater sample was collected from the referenced site. The groundwater results were reported as non-detect and/or below EPA PRG's. Based on the information and analytical data submitted, the Department recognizes that MCAS has adequately addressed the known environmental contamination identified on the property to date in accordance with the approved scope of work. Consequently, no further investigation is required at this time. Please note, this statement pertains only to the portion of the site addressed in the referenced report and does not apply to other areas of the site and/or any other potential regulatory violations. Further, the Department retains the right to request further investigation if deemed necessary.

Should you have any questions, please contact me at 803-896-4179 (office phone), 803-896-6245 (fax) or cookejt@dhec.sc.gov.

Sincerely,
AST Petroleum Restoration
& Site Environmental Investigations Section
Land Revitalization Division
Bureau of Land and Waste Management
SC Dept. of Health & Environmental Control

Jan T. Cooke, Hydrogeologist

B. Thomas Knight, Manager

cc: Region 8 District EQC
Tri-Command Communities; Attn: Mr. Robert Bible; 600 Laurel Bay Road Beaufort, SC 29906
Technical File

dhec
Healthy People Healthy Communities.

August 3, 2016

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
Dated July 2015, November 2015

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (the Department) received the Underground Storage Tanks (USTs) Assessment Reports for the addresses listed in the attachment. 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 petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

Laurel Petrus, Environmental Engineer Associate
Bureau of Land and Waste Management

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

Attachment to: Petrus to Drawdy
Subject: No Further Action
Dated August 3, 2016

Laurel Bay Underground Assessment Reports for (28 addresses/29 tanks)

No Further Action recommendation:	
309 Ash	1001 Bobwhite
477 Dogwood Tank 2	1020 Foxglove
563 Dahlia	1063 Gardenia
659 Camellia	1065 Gardenia Tank 2
1213 Cardinal	1100 Iris Tank 3*
114 Banyan	1139 Iris
158 Cypress	1141 Iris Tank 2
459 Elderberry	1174 Bobwhite
611 Dahlia	1184 Bobwhite Tank 1
656 Camellia	1184 Bobwhite Tank 2
671 Camellia	1220 Cardinal
678 Camellia	1253 Dove
724 Bluebell	1332 Albatross
732 Bluebell	1387 Dove
934 Albacore	
*1100 Iris Tank 1-NFA 12/19/2008, Tank 2-NFA 7/1/15; Paperwork for Tank 3 is labeled Tank 2	