

SUMMARY REPORT
661 WEST CARDINAL LANE (FORMERLY 1462 WEST CARDINAL LANE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and



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

JUNE 2021

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Prepared by:



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

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

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List of Acronyms

bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CTO	Contract Task Order
COPC	constituents of potential concern
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 661 West Cardinal Lane (Formerly 1462 West Cardinal Lane). 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 661 West Cardinal Lane (Formerly 1462 West Cardinal Lane). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 1462 West Cardinal Lane* (MCAS Beaufort, 2015). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On October 9, 2014, a single 280 gallon heating oil UST was removed from the front yard area at 641 West Cardinal Lane (Formerly 1462 West Cardinal Lane). The former UST location is indicated on Figures 1 and 2 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of

the UST was 4'8" bgs and a single soil sample was collected from that depth. The sample was collected from the fill port side of the former UST to represent a worst case scenario.

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

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST location were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from 661 West Cardinal Lane (Formerly 1462 West Cardinal Lane) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 661 West Cardinal Lane (Formerly 1462 West Cardinal Lane). This NFA determination was obtained in a letter dated April 23, 2015. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2015. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 1462 West Cardinal Lane, Laurel Bay Military Housing Area*, March 2015.

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

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

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

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

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

Table

Table 1
Laboratory Analytical Results - Soil
661 West Cardinal Lane (Formerly 1462 West Cardinal Lane)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 10/09/14
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)		
Benzene	0.003	ND
Ethylbenzene	1.15	ND
Naphthalene	0.036	0.00337
Toluene	0.627	ND
Xylenes, Total	13.01	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)		
Benzo(a)anthracene	0.66	ND
Benzo(b)fluoranthene	0.66	ND
Benzo(k)fluoranthene	0.66	ND
Chrysene	0.66	ND
Dibenz(a,h)anthracene	0.66	ND

Notes:

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligram per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A
Multi-Media Selection Process for LBMH



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Report

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



MAR 17 2015

SC DHEC - Bureau of
Land & Waste Management

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	
1462 Cardinal Lane, Laurel Bay Military Housing Area	
Street Address or State Road (as applicable)	
Beaufort,	Beaufort
City	County

III. INSURANCE INFORMATION

Insurance Statement

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

Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? YES____ NO____ (check one)

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

My policy provider is: _____

The policy deductible is: _____

The policy limit is: _____

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

IV. REQUEST FOR SUPERB FUNDING

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

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

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

Name (Type or print.)

Signature

To be completed by Notary Public:

Sworn before me this _____ day of _____, 20____

(Name)

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

VI. UST INFORMATION

A. Product...(ex. Gas, Kerosene).....

B. Capacity...(ex. 1k, 2k).....

C. Age.....

D. Construction Material...(ex. Steel, FRP).....

E. Month/Year of Last Use.....

F. Depth (ft.) To Base of Tank.....

G. Spill Prevention Equipment Y/N.....

H. Overfill Prevention Equipment Y/N.....

I. Method of Closure Removed/Filled.....

J. Date Tanks Removed/Filled.....

K. Visible Corrosion or Pitting Y/N.....

L. Visible Holes Y/N.....

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 1462Cardinal 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 1462Cardinal was previously filled with sand by others.

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

1462 Cardinal		
Heating oil		
280 gal		
Late 1950s		
Steel		
Mid 80s		
4'8"		
No		
No		
Removed		
10/9/2014		
Yes		
Yes		

VII. PIPING INFORMATION

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

1462 Cardinal		
Steel & Copper		
N/A		
N/A		
Suction		
No		
Yes		
No		
Late 1950s		

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

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

The house at 1462 Cardinal Lane has been demolished.

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 #
1462 Cardinal	Excav at fill end	Soil	Sandy	4'8"	10/9/14 1215 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? *Broad River 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 & geothermal 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)

← BROAD RIVER ≈ 700'



FORMER
1462 CARDINAL LN.
LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SC

UST 1462CARDINAL

24'

POWER POLE #1709A

13'-10"

CARDINAL LANE

GRAPHIC SCALE

0 5' 10' 20'

TANK DEPTH BELOW GRADE
1462CARDINAL = 20"

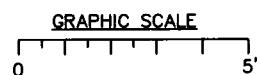
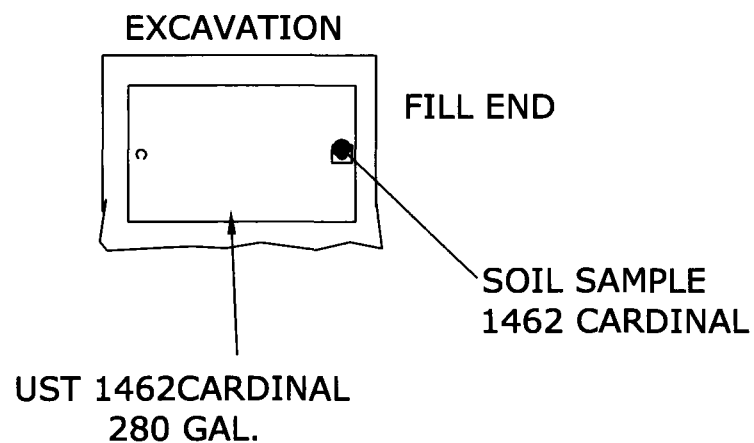
SBG-EEG

7301 RIVERS AVE., SUITE 245
N. CHARLESTON SC 29406-9643
(843) 573-7140

FIGURE 1 SITE MAP
1462 CARDINAL LN., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE NOV 2014



SBG-EEG
7301 RIVERS AVE., SUITE 245
N. CHARLESTON SC 29406-9643
(843) 573-7140

FIGURE 2 UST SAMPLE LOCATIONS
1462 CARDINAL LN., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE NOV 2014



Picture 1: Location of UST 1462Cardinal.



Picture 2: UST 1462Cardinal in the excavation.



Picture 3: UST 1462 Cardinal excavation.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC	UST	1462Cardinal					
Benzene		ND					
Toluene		ND					
Ethylbenzene		ND					
Xylenes		ND					
Naphthalene		0.00337 mg/kg					
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

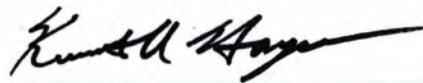
TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 490-63822-1
Client Project/Site: Laurel Bay Site

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

Attn: Tom McElwee



Authorized for release by:
10/30/2014 1:08:12 PM

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

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

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Sample Summary

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

TestAmerica Job ID: 490-63822-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-63822-1	1462 Cardinal	Soil	10/09/14 12:15	10/15/14 08:20
490-63822-2	477 Dogwood-1	Soil	10/13/14 15:00	10/15/14 08:20

1

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Case Narrative

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

TestAmerica Job ID: 490-63822-1

Job ID: 490-63822-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-63822-1

Comments

No additional comments.

Receipt

The samples were received on 10/15/2014 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.4° C.

GC/MS VOA

Method(s) 8260B: The method blank for batch 199730 contained naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC/MS Semi VOA

Method(s) 8270D: The surrogate recovery for the laboratory control sample (LCS) associated with batch 201160 was outside the upper control limits. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or 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.



Definitions/Glossary

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

TestAmerica Job ID: 490-63822-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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
X	Surrogate is outside control limits

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 Results

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

TestAmerica Job ID: 490-63822-1

Client Sample ID: 1462 Cardinal

Date Collected: 10/09/14 12:15

Date Received: 10/15/14 08:20

Lab Sample ID: 490-63822-1

Matrix: Soil

Percent Solids: 78.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00265	0.000887	mg/Kg	☒	10/17/14 14:17	10/21/14 18:37	1
Ethylbenzene	ND		0.00265	0.000887	mg/Kg	☒	10/17/14 14:17	10/21/14 18:37	1
Naphthalene	0.00337	J B	0.00662	0.00225	mg/Kg	☒	10/17/14 14:17	10/21/14 18:37	1
Toluene	ND		0.00265	0.000979	mg/Kg	☒	10/17/14 14:17	10/21/14 18:37	1
Xylenes, Total	ND		0.00397	0.000887	mg/Kg	☒	10/17/14 14:17	10/21/14 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130	10/17/14 14:17	10/21/14 18:37	1
4-Bromofluorobenzene (Surr)	110		70 - 130	10/17/14 14:17	10/21/14 18:37	1
Dibromofluoromethane (Surr)	111		70 - 130	10/17/14 14:17	10/21/14 18:37	1
Toluene-d8 (Surr)	101		70 - 130	10/17/14 14:17	10/21/14 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0666	0.00994	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Acenaphthylene	ND		0.0666	0.00895	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Anthracene	ND		0.0666	0.00895	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Benzo[a]anthracene	ND		0.0666	0.0149	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Benzo[a]pyrene	ND		0.0666	0.0119	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Benzo[b]fluoranthene	ND		0.0666	0.0119	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Benzo[g,h,i]perylene	ND		0.0666	0.00895	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Benzo[k]fluoranthene	ND		0.0666	0.0139	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
1-Methylnaphthalene	ND		0.0666	0.0139	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Pyrene	ND		0.0666	0.0119	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Phenanthrene	ND		0.0666	0.00895	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Chrysene	ND		0.0666	0.00895	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Dibenz(a,h)anthracene	ND		0.0666	0.00696	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Fluoranthene	ND		0.0666	0.00895	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Fluorene	ND		0.0666	0.0119	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Indeno[1,2,3-cd]pyrene	ND		0.0666	0.00994	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
Naphthalene	ND		0.0666	0.00895	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1
2-Methylnaphthalene	ND		0.0666	0.0159	mg/Kg	☒	10/21/14 17:49	10/24/14 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	49		29 - 120	10/21/14 17:49	10/24/14 20:29	1
Terphenyl-d14 (Surr)	58		13 - 120	10/21/14 17:49	10/24/14 20:29	1
Nitrobenzene-d5 (Surr)	48		27 - 120	10/21/14 17:49	10/24/14 20:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	79		0.10	0.10	%			10/15/14 16:55	1

TestAmerica Nashville

Client Sample Results

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

TestAmerica Job ID: 490-63822-1

Client Sample ID: 477 Dogwood-1

Date Collected: 10/13/14 15:00

Date Received: 10/15/14 08:20

Lab Sample ID: 490-63822-2

Matrix: Soil

Percent Solids: 73.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00340	0.00114	mg/Kg	☒	10/17/14 14:17	10/21/14 18:08	1
Ethylbenzene	ND		0.00340	0.00114	mg/Kg	☒	10/17/14 14:17	10/21/14 18:08	1
Naphthalene	0.00487	J B	0.00850	0.00289	mg/Kg	☒	10/17/14 14:17	10/21/14 18:08	1
Toluene	ND		0.00340	0.00126	mg/Kg	☒	10/17/14 14:17	10/21/14 18:08	1
Xylenes, Total	ND		0.00510	0.00114	mg/Kg	☒	10/17/14 14:17	10/21/14 18:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130	10/17/14 14:17	10/21/14 18:08	1
4-Bromofluorobenzene (Surr)	108		70 - 130	10/17/14 14:17	10/21/14 18:08	1
Dibromofluoromethane (Surr)	112		70 - 130	10/17/14 14:17	10/21/14 18:08	1
Toluene-d8 (Surr)	100		70 - 130	10/17/14 14:17	10/21/14 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.134	0.0200	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Acenaphthylene	ND		0.134	0.0180	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Anthracene	ND		0.134	0.0180	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Benzo[a]anthracene	ND		0.134	0.0300	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Benzo[a]pyrene	ND		0.134	0.0240	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Benzo[b]fluoranthene	ND		0.134	0.0240	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Benzo[g,h,i]perylene	ND		0.134	0.0180	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Benzo[k]fluoranthene	ND		0.134	0.0280	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
1-Methylnaphthalene	ND		0.134	0.0280	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Pyrene	ND		0.134	0.0240	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Phenanthrene	ND		0.134	0.0180	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Chrysene	ND		0.134	0.0180	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Dibenz(a,h)anthracene	ND		0.134	0.0140	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Fluoranthene	ND		0.134	0.0180	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Fluorene	ND		0.134	0.0240	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Indeno[1,2,3-cd]pyrene	ND		0.134	0.0200	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
Naphthalene	ND		0.134	0.0180	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2
2-Methylnaphthalene	ND		0.134	0.0320	mg/Kg	☒	10/27/14 09:14	10/29/14 16:47	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	76		29 - 120	10/27/14 09:14	10/29/14 16:47	2
Terphenyl-d14 (Surr)	83		13 - 120	10/27/14 09:14	10/29/14 16:47	2
Nitrobenzene-d5 (Surr)	71		27 - 120	10/27/14 09:14	10/29/14 16:47	2

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73		0.10	0.10	%			10/15/14 16:55	1

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-63822-1

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

Lab Sample ID: 490-63897-A-13-D MS

Matrix: Solid

Analysis Batch: 199730

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 199131

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Benzene	ND		0.0500	0.03520		mg/Kg	☒	70	31 - 143	
Ethylbenzene	ND		0.0500	0.03606		mg/Kg	☒	72	23 - 161	
Naphthalene	0.00225	J B	0.0500	0.01753		mg/Kg	☒	31	10 - 176	
Toluene	ND		0.0500	0.03318		mg/Kg	☒	66	30 - 155	
Xylenes, Total	ND		0.150	0.09053		mg/Kg	☒	60	25 - 162	
MS MS										
Surrogate	%Recovery		Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	90			70 - 130						
4-Bromofluorobenzene (Surr)	111			70 - 130						
Dibromofluoromethane (Surr)	91			70 - 130						
Toluene-d8 (Surr)	102			70 - 130						

Lab Sample ID: 490-63897-A-13-E MSD

Matrix: Solid

Analysis Batch: 199730

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 199131

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits		RPD	Limit
Benzene	ND		0.0526	0.03553		mg/Kg	☒	67	31 - 143		1	50
Ethylbenzene	ND		0.0526	0.03348		mg/Kg	☒	64	23 - 161		7	50
Naphthalene	0.00225	J B	0.0526	0.01198		mg/Kg	☒	18	10 - 176		38	50
Toluene	ND		0.0526	0.03406		mg/Kg	☒	65	30 - 155		3	50
Xylenes, Total	ND		0.158	0.08487		mg/Kg	☒	54	25 - 162		6	50
MSD MSD												
Surrogate	%Recovery		Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	93			70 - 130								
4-Bromofluorobenzene (Surr)	115			70 - 130								
Dibromofluoromethane (Surr)	91			70 - 130								
Toluene-d8 (Surr)	105			70 - 130								

Lab Sample ID: MB 490-199730/7

Matrix: Solid

Analysis Batch: 199730

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.00200	0.000670	mg/Kg			10/21/14 17:39	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			10/21/14 17:39	1
Naphthalene	0.003141	J	0.00500	0.00170	mg/Kg			10/21/14 17:39	1
Toluene	ND		0.00200	0.000740	mg/Kg			10/21/14 17:39	1
Xylenes, Total	ND		0.00300	0.000670	mg/Kg			10/21/14 17:39	1
MB MB									
Surrogate	%Recovery		Qualifier	Limits		Prepared		Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112			70 - 130				10/21/14 17:39	1
4-Bromofluorobenzene (Surr)	109			70 - 130				10/21/14 17:39	1
Dibromofluoromethane (Surr)	110			70 - 130				10/21/14 17:39	1
Toluene-d8 (Surr)	102			70 - 130				10/21/14 17:39	1

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-63822-1

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

Lab Sample ID: LCS 490-199730/3

Matrix: Solid

Analysis Batch: 199730

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	0.04973		mg/Kg		99	75 - 127	
Ethylbenzene	0.0500	0.05567		mg/Kg		111	80 - 134	
Naphthalene	0.0500	0.05030		mg/Kg		101	69 - 150	
Toluene	0.0500	0.05079		mg/Kg		102	80 - 132	
Xylenes, Total	0.150	0.1553		mg/Kg		104	80 - 137	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: LCSD 490-199730/4

Matrix: Solid

Analysis Batch: 199730

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	Limit
Benzene	0.0500	0.04954		mg/Kg		99	75 - 127		0	50
Ethylbenzene	0.0500	0.05417		mg/Kg		108	80 - 134		3	50
Naphthalene	0.0500	0.04806		mg/Kg		96	69 - 150		5	50
Toluene	0.0500	0.05141		mg/Kg		103	80 - 132		1	50
Xylenes, Total	0.150	0.1520		mg/Kg		101	80 - 137		2	50

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	104		70 - 130

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

Lab Sample ID: MB 490-199849/1-A

Matrix: Solid

Analysis Batch: 200687

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 199849

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	ND		0.0670	0.0100	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Anthracene	ND		0.0670	0.00900	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Pyrene	ND		0.0670	0.0120	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		10/21/14 17:49	10/24/14 19:43	1

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-63822-1

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

Lab Sample ID: MB 490-199849/1-A
Matrix: Solid
Analysis Batch: 200687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199849

Analyte	Result	MB MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0670	0.00900	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Fluorene	ND		0.0670	0.0120	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		10/21/14 17:49	10/24/14 19:43	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		10/21/14 17:49	10/24/14 19:43	1

Surrogate	%Recovery	MB MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120	10/21/14 17:49	10/24/14 19:43	1
Terphenyl-d14 (Surr)	63		13 - 120	10/21/14 17:49	10/24/14 19:43	1
Nitrobenzene-d5 (Surr)	55		27 - 120	10/21/14 17:49	10/24/14 19:43	1

Lab Sample ID: LCS 490-199849/2-A
Matrix: Solid
Analysis Batch: 200687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199849

Analyte	Spike Added	LCS LCS Result Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1.67	0.9230	mg/Kg		55	38 - 120
Anthracene	1.67	0.8838	mg/Kg		53	46 - 124
Benzo[a]anthracene	1.67	0.9195	mg/Kg		55	45 - 120
Benzo[a]pyrene	1.67	0.8865	mg/Kg		53	45 - 120
Benzo[b]fluoranthene	1.67	0.9114	mg/Kg		55	42 - 120
Benzo[g,h,i]perylene	1.67	0.8795	mg/Kg		53	38 - 120
Benzo[k]fluoranthene	1.67	0.8869	mg/Kg		53	42 - 120
1-Methylnaphthalene	1.67	0.9199	mg/Kg		55	32 - 120
Pyrene	1.67	0.8305	mg/Kg		50	43 - 120
Phenanthrene	1.67	0.8760	mg/Kg		53	45 - 120
Chrysene	1.67	0.8596	mg/Kg		52	43 - 120
Dibenz(a,h)anthracene	1.67	0.9353	mg/Kg		56	32 - 128
Fluoranthene	1.67	0.9194	mg/Kg		55	46 - 120
Fluorene	1.67	0.9483	mg/Kg		57	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	0.8989	mg/Kg		54	41 - 121
Naphthalene	1.67	0.9058	mg/Kg		54	32 - 120
2-Methylnaphthalene	1.67	0.9091	mg/Kg		55	28 - 120

Surrogate	LCS LCS %Recovery Qualifier	Limits
2-Fluorobiphenyl (Surr)	48	29 - 120
Terphenyl-d14 (Surr)	51	13 - 120
Nitrobenzene-d5 (Surr)	46	27 - 120

Lab Sample ID: 490-63822-1 MS
Matrix: Soil
Analysis Batch: 200687

Client Sample ID: 1462 Cardinal
Prep Type: Total/NA
Prep Batch: 199849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS Result Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		2.10	1.399	mg/Kg	☐	67	25 - 120
Anthracene	ND		2.10	1.400	mg/Kg	☐	67	28 - 125

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-63822-1

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

Lab Sample ID: 490-63822-1 MS

Matrix: Soil

Analysis Batch: 200687

Client Sample ID: 1462 Cardinal

Prep Type: Total/NA

Prep Batch: 199849

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Benzo[a]anthracene	ND		2.10	1.456		mg/Kg	☒	69	23 - 120
Benzo[a]pyrene	ND		2.10	1.376		mg/Kg	☒	66	15 - 128
Benzo[b]fluoranthene	ND		2.10	1.433		mg/Kg	☒	68	12 - 133
Benzo[g,h,i]perylene	ND		2.10	1.306		mg/Kg	☒	62	22 - 120
Benzo[k]fluoranthene	ND		2.10	1.451		mg/Kg	☒	69	28 - 120
1-Methylnaphthalene	ND		2.10	1.371		mg/Kg	☒	65	10 - 120
Pyrene	ND		2.10	1.347		mg/Kg	☒	64	20 - 123
Phenanthrene	ND		2.10	1.368		mg/Kg	☒	65	21 - 122
Chrysene	ND		2.10	1.397		mg/Kg	☒	67	20 - 120
Dibenz(a,h)anthracene	ND		2.10	1.387		mg/Kg	☒	66	12 - 128
Fluoranthene	ND		2.10	1.476		mg/Kg	☒	70	10 - 143
Fluorene	ND		2.10	1.472		mg/Kg	☒	70	20 - 120
Indeno[1,2,3-cd]pyrene	ND		2.10	1.338		mg/Kg	☒	64	22 - 121
Naphthalene	ND		2.10	1.327		mg/Kg	☒	63	10 - 120
2-Methylnaphthalene	ND		2.10	1.366		mg/Kg	☒	65	13 - 120

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	55		29 - 120
Terphenyl-d14 (Surr)	64		13 - 120
Nitrobenzene-d5 (Surr)	51		27 - 120

Lab Sample ID: 490-63822-1 MSD

Matrix: Soil

Analysis Batch: 200687

Client Sample ID: 1462 Cardinal

Prep Type: Total/NA

Prep Batch: 199849

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit
Acenaphthylene	ND		2.10	1.220		mg/Kg	☒	58	25 - 120	14 50
Anthracene	ND		2.10	1.229		mg/Kg	☒	59	28 - 125	13 49
Benzo[a]anthracene	ND		2.10	1.289		mg/Kg	☒	61	23 - 120	12 50
Benzo[a]pyrene	ND		2.10	1.204		mg/Kg	☒	57	15 - 128	13 50
Benzo[b]fluoranthene	ND		2.10	1.285		mg/Kg	☒	61	12 - 133	11 50
Benzo[g,h,i]perylene	ND		2.10	1.159		mg/Kg	☒	55	22 - 120	12 50
Benzo[k]fluoranthene	ND		2.10	1.229		mg/Kg	☒	58	28 - 120	17 45
1-Methylnaphthalene	ND		2.10	1.235		mg/Kg	☒	59	10 - 120	10 50
Pyrene	ND		2.10	1.201		mg/Kg	☒	57	20 - 123	11 50
Phenanthrene	ND		2.10	1.211		mg/Kg	☒	58	21 - 122	12 50
Chrysene	ND		2.10	1.182		mg/Kg	☒	56	20 - 120	17 49
Dibenz(a,h)anthracene	ND		2.10	1.215		mg/Kg	☒	58	12 - 128	13 50
Fluoranthene	ND		2.10	1.325		mg/Kg	☒	63	10 - 143	11 50
Fluorene	ND		2.10	1.306		mg/Kg	☒	62	20 - 120	12 50
Indeno[1,2,3-cd]pyrene	ND		2.10	1.190		mg/Kg	☒	57	22 - 121	12 50
Naphthalene	ND		2.10	1.177		mg/Kg	☒	56	10 - 120	12 50
2-Methylnaphthalene	ND		2.10	1.223		mg/Kg	☒	58	13 - 120	11 50

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	50		29 - 120
Terphenyl-d14 (Surr)	56		13 - 120

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-63822-1

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

Lab Sample ID: 490-63822-1 MSD
Matrix: Soil
Analysis Batch: 200687

Client Sample ID: 1462 Cardinal
Prep Type: Total/NA
Prep Batch: 199849

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5 (Surr)	48		27 - 120

Lab Sample ID: MB 490-201160/1-A
Matrix: Solid
Analysis Batch: 201496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 201160

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND				0.0670	0.0100	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Acenaphthylene	ND				0.0670	0.00900	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Anthracene	ND				0.0670	0.00900	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Benzo[a]anthracene	ND				0.0670	0.0150	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Benzo[a]pyrene	ND				0.0670	0.0120	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Benzo[b]fluoranthene	ND				0.0670	0.0120	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Benzo[g,h,i]perylene	ND				0.0670	0.00900	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Benzo[k]fluoranthene	ND				0.0670	0.0140	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
1-Methylnaphthalene	ND				0.0670	0.0140	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Pyrene	ND				0.0670	0.0120	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Phenanthrene	ND				0.0670	0.00900	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Chrysene	ND				0.0670	0.00900	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Dibenz(a,h)anthracene	ND				0.0670	0.00700	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Fluoranthene	ND				0.0670	0.00900	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Fluorene	ND				0.0670	0.0120	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Indeno[1,2,3-cd]pyrene	ND				0.0670	0.0100	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
Naphthalene	ND				0.0670	0.00900	mg/Kg		10/27/14 09:14	10/28/14 23:34	1
2-Methylnaphthalene	ND				0.0670	0.0160	mg/Kg		10/27/14 09:14	10/28/14 23:34	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74				29 - 120	10/27/14 09:14	10/28/14 23:34	1
Terphenyl-d14 (Surr)	95				13 - 120	10/27/14 09:14	10/28/14 23:34	1
Nitrobenzene-d5 (Surr)	65				27 - 120	10/27/14 09:14	10/28/14 23:34	1

Lab Sample ID: LCS 490-201160/2-A
Matrix: Solid
Analysis Batch: 201496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 201160

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier			Limits	
Acenaphthylene	1.67	1.621		mg/Kg		97	38 - 120
Anthracene	1.67	1.646		mg/Kg		99	46 - 124
Benzo[a]anthracene	1.67	1.687		mg/Kg		101	45 - 120
Benzo[a]pyrene	1.67	1.684		mg/Kg		101	45 - 120
Benzo[b]fluoranthene	1.67	1.811		mg/Kg		109	42 - 120
Benzo[g,h,i]perylene	1.67	1.564		mg/Kg		94	38 - 120
Benzo[k]fluoranthene	1.67	1.667		mg/Kg		100	42 - 120
1-Methylnaphthalene	1.67	1.601		mg/Kg		96	32 - 120
Pyrene	1.67	1.671		mg/Kg		100	43 - 120
Phenanthrene	1.67	1.602		mg/Kg		96	45 - 120
Chrysene	1.67	1.611		mg/Kg		97	43 - 120
Dibenz(a,h)anthracene	1.67	1.688		mg/Kg		101	32 - 128

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-63822-1

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

Lab Sample ID: LCS 490-201160/2-A				Client Sample ID: Lab Control Sample			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 201496				Prep Batch: 201160			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	1.67	1.718		mg/Kg		103	46 - 120
Fluorene	1.67	1.745		mg/Kg		105	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.451		mg/Kg		87	41 - 121
Naphthalene	1.67	1.591		mg/Kg		95	32 - 120
2-Methylnaphthalene	1.67	1.638		mg/Kg		98	28 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl (Surr)	100		29 - 120				
Terphenyl-d14 (Surr)	122	X	13 - 120				
Nitrobenzene-d5 (Surr)	94		27 - 120				

Method: Moisture - Percent Moisture

Lab Sample ID: 490-63804-A-16 DU				Client Sample ID: Duplicate			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 198272							
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD Limit
Percent Solids	86		87		%		0.3 20

TestAmerica Nashville

QC Association Summary

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

TestAmerica Job ID: 490-63822-1

GC/MS VOA

Prep Batch: 198904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-63822-1	1462 Cardinal	Total/NA	Soil	5035	
490-63822-2	477 Dogwood-1	Total/NA	Soil	5035	

Prep Batch: 199131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-63897-A-13-D MS	Matrix Spike	Total/NA	Solid	5030B	
490-63897-A-13-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

Analysis Batch: 199730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-63822-1	1462 Cardinal	Total/NA	Soil	8260B	198904
490-63822-2	477 Dogwood-1	Total/NA	Soil	8260B	198904
490-63897-A-13-D MS	Matrix Spike	Total/NA	Solid	8260B	199131
490-63897-A-13-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	199131
LCS 490-199730/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-199730/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-199730/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 199849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-63822-1	1462 Cardinal	Total/NA	Soil	3550C	
490-63822-1 MS	1462 Cardinal	Total/NA	Soil	3550C	
490-63822-1 MSD	1462 Cardinal	Total/NA	Soil	3550C	
LCS 490-199849/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-199849/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 200687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-63822-1	1462 Cardinal	Total/NA	Soil	8270D	199849
490-63822-1 MS	1462 Cardinal	Total/NA	Soil	8270D	199849
490-63822-1 MSD	1462 Cardinal	Total/NA	Soil	8270D	199849
LCS 490-199849/2-A	Lab Control Sample	Total/NA	Solid	8270D	199849
MB 490-199849/1-A	Method Blank	Total/NA	Solid	8270D	199849

Prep Batch: 201160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-63822-2	477 Dogwood-1	Total/NA	Soil	3550C	
LCS 490-201160/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-201160/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 201496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-201160/2-A	Lab Control Sample	Total/NA	Solid	8270D	201160
MB 490-201160/1-A	Method Blank	Total/NA	Solid	8270D	201160

Analysis Batch: 201771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-63822-2	477 Dogwood-1	Total/NA	Soil	8270D	201160

TestAmerica Nashville



QC Association Summary

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

TestAmerica Job ID: 490-63822-1

General Chemistry

Analysis Batch: 198272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-63804-A-16 DU	Duplicate	Total/NA	Solid	Moisture	
490-63822-1	1462 Cardinal	Total/NA	Soil	Moisture	
490-63822-2	477 Dogwood-1	Total/NA	Soil	Moisture	

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Lab Chronicle

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

TestAmerica Job ID: 490-63822-1

Client Sample ID: 1462 Cardinal

Date Collected: 10/09/14 12:15

Date Received: 10/15/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.788 g	5.0 mL	198904	10/17/14 14:17	JLP	TAL NSH
Total/NA	Analysis	8260B		1	4.788 g	5.0 mL	199730	10/21/14 18:37	KKK	TAL NSH
Total/NA	Prep	3550C			38.24 g	1.00 mL	199849	10/21/14 17:49	RMS	TAL NSH
Total/NA	Analysis	8270D		1	38.24 g	1.00 mL	200687	10/24/14 20:29	KKH	TAL NSH
Total/NA	Analysis	Moisture		1			198272	10/15/14 16:55	RRS	TAL NSH

Lab Sample ID: 490-63822-1

Matrix: Soil

Percent Solids: 78.9

Client Sample ID: 477 Dogwood-1

Date Collected: 10/13/14 15:00

Date Received: 10/15/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.007 g	5.0 mL	198904	10/17/14 14:17	JLP	TAL NSH
Total/NA	Analysis	8260B		1	4.007 g	5.0 mL	199730	10/21/14 18:08	KKK	TAL NSH
Total/NA	Prep	3550C			40.93 g	1.00 mL	201160	10/27/14 09:14	LDC	TAL NSH
Total/NA	Analysis	8270D		2	40.93 g	1.00 mL	201771	10/29/14 16:47	SNR	TAL NSH
Total/NA	Analysis	Moisture		1			198272	10/15/14 16:55	RRS	TAL NSH

Lab Sample ID: 490-63822-2

Matrix: Soil

Percent Solids: 73.4

Laboratory References:

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

TestAmerica Nashville

Method Summary

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

TestAmerica Job ID: 490-63822-1

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 Site

TestAmerica Job ID: 490-63822-1

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	12-31-14
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)	02-28-15
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	

COOLER RECEIPT FORM



490-63822 Chain of Custody

Cooler Received/Opened On: 10/15/2014 @ 8:20

1. Tracking # 3957 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17610176

2. Temperature of rep. sample or temp blank when opened: 0.4 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: 1 Front 1 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 (Initial) AJH

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 # AJH

I certify that I unloaded the cooler and answered questions 7-14 (Initial) AJH

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 (Initial) AJH

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 (Initial) AJH

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

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

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-63822-1

Login Number: 63822

List Source: TestAmerica Nashville

List Number: 1

Creator: Huskey, Adam

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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	
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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ATTACHMENT A



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of 1	
3. Generator's Mailing Address: MCAS BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29904		Generator's Site Address (if different than mailing): S/A		A. Manifest Number WMNA 01519116		B. State Generator's ID	
4. Generator's Phone 843-879-0411		5. Transporter 1 Company Name 843-522-5000 Carolina Containers P.O. Box 1925 Pine Bluff, AR 71601		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		E. State Transporter's ID	
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY DRIVE RIDGELAND, SC 29936		10. US EPA ID Number		F. Transporter's Phone		G. State Facility ID	
				H. State Facility Phone 843-987-4643			
11. Description of Waste Materials		12. Containers		13. Total Quantity		14. Unit Wt./Vol.	
		No. Type				I. Misc. Comments	
a. HEATING OIL TANK FILLED WITH SAND WM Profile # 102655SC		1 30g		598		Tons 749170	
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information UST's from: 1) 252 BEECH ✓ 2) 401 ELDERBERRY ✓ 3) 435 ELDERBERRY ✓ 4) 437 ELDERBERRY - 2 ✓ 5) 462 CARDINAL							
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 W.G. Duke		Signature "On behalf of"		Month 12 Day 01 Year 14	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name PRATT SHAW		Signature		Month 12 Day 1 Year 14	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name MICHAEL BROICH		Signature		Month 12 Day 2 Year 14	
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 JOAN COFIELD		Signature		Month 12 Day 2 Year 14	

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

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

Yellow- GENERATOR #1 COPY

Appendix C

Regulatory Correspondence



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

April 23, 2015

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

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

Dear Mr. Drawdy,

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

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

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

If you have any questions, please contact me at kriegkm@dhec.sc.gov or 803-898-0255.

Sincerely,

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

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



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

Attachment to: Krieg to Drawdy
Subject: NFA
Dated 4/23/2015

Laurel Bay Underground Storage Tank Assessment Reports for: (2 addresses/2 tanks)

1459 Cardinal	1462 Cardinal
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