SUMMARY REPORT
95 BARRACUDA DRIVE (FORMERLY 912 BARRACUDA 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

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9324 Virginia Avenue Norfolk, Virginia 23511-3095 Prepared by:



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

Contract Number: N62470-14-D-9016

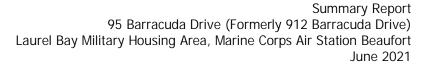
CTO WE52

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 95 Barracuda Drive (Formerly 912 Barracuda 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 95 Barracuda Drive (Formerly 912 Barracuda Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 912 Barracuda Drive* (MCAS Beaufort, 2013). The UST Assessment Report is provided in Appendix B.

2.1 UST Removal and Soil Sampling

On January 30, 2013, a single 280 gallon heating oil UST was removed from the back yard under the patio area at 95 Barracuda Drive (Formerly 912 Barracuda Drive). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 5'7" 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 95 Barracuda Drive (Formerly 912 Barracuda Drive) 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 95 Barracuda Drive (Formerly 912 Barracuda Drive). This NFA determination was obtained in a letter dated May 15, 2014. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2013. South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 912 Barracuda Drive, Laurel Bay Military Housing Area, April 2013.

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 95 Barracuda Drive (Formerly 912 Barracuda Drive)

Laurel Bay Military Housing Area Marine Corps Air Station Beaufort Beaufort, South Carolina

| Constituent | SCDHEC RBSLs (1) | Results Sample Collected 01/30/13 | | | | | |
|---|----------------------------------|-----------------------------------|--|--|--|--|--|
| Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg) | | | | | | | |
| Benzene | 0.003 | ND | | | | | |
| Ethylbenzene | 1.15 | ND | | | | | |
| Naphthalene | 0.036 | ND | | | | | |
| Toluene | 0.627 | ND | | | | | |
| Xylenes, Total | 13.01 | ND | | | | | |
| Semivolatile Organic Compounds Anal | yzed 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:

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.

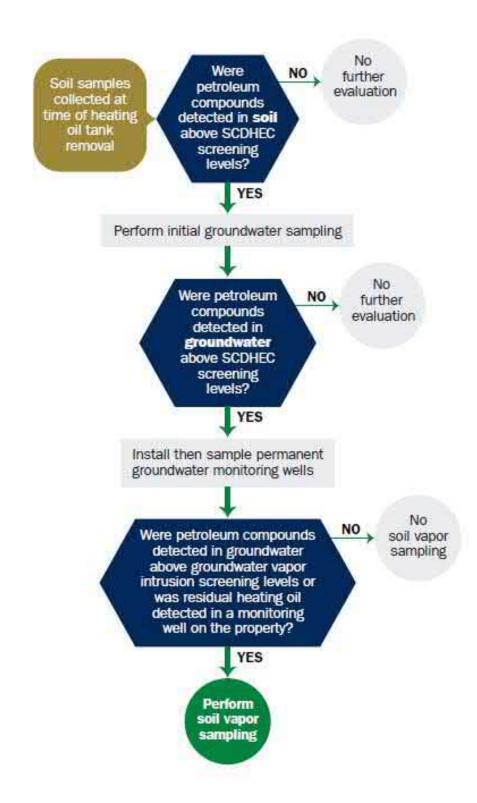
RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

⁽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).

Appendix A Multi-Media Selection Process for LBMH





Appendix A - Multi-Media Selection Process for LBMH

Appendix B UST Assessment Report



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, Comma Owner Name (Corporation, Inc | nding Officer Attn: NR lividual, Public Agency, Other) | EAO (Craig Ehde) |
|--|---|------------------|
| 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 Ho | using Area, Ma | arine Corps | Air Station, | Beaufort, SC |
| Facility Name or Company Site Id | entifier | | | |
| 912 Barracuda Street, | | litary Hous: | ing Area | |
| Street Address or State Road (as a | pplicable) | | | * |
| | | | | |
| Beaufort, | Beaufort | | | |
| City | County | | | |
| | | | | |

Attachment 2

III. INSURANCE INFORMATION

| III. INSURANCE INFOR | MATION |
|---|---|
| Insurance Statement | |
| The petroleum release reported to DHEC on qualify to receive state monies to pay for appropriate site rehabilitation allowed in the State Clean-up fund, written confirmation of the existent insurance policy is required. This section must be completed. | n activities. Before participation is |
| Is there now, or has there ever been an insurance policy or other UST release? YES NO (check one) | er financial mechanism that covers this |
| If you answered YES to the above question, please con | aplete the following information: |
| My policy provider is: | |
| My policy provider is: The policy deductible is: | - |
| The policy limit is: | _ |
| The pone, min is. | |
| If you have this type of insurance, please include a copy of the | policy with this report. |
| IV. REQUEST FOR SUPERIOR I DO / DO NOT wish to participate in the SUPERB Program | |
| V. CERTIFICATION (To be signed | l by the UST owner) |
| I certify that I have personally examined and am familiar with the attached documents; and that based on my inquiry of those information, I believe that the submitted information is true, accuming | ne information submitted in this and all lividuals responsible for obtaining this rate, 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 | ı |

| VI. UST INFORMATION | 912Barracuda |
|---|--|
| Product(ex. Gas, Kerosene) | Heating oil |
| Capacity(ex. 1k, 2k) | 280 gal |
| Age | Late 1950s |
| Construction Material(ex. Steel, FRP) | Steel |
| Month/Year of Last Use | Mid 1980s |
| Depth (ft.) To Base of Tank | 5'7" |
| Spill Prevention Equipment Y/N | No |
| Overfill Prevention Equipment Y/N | No |
| Method of Closure Removed/Filled | Removed |
| Date Tanks Removed/Filled | 1/30/2013 |
| Visible Corrosion or Pitting Y/N | Yes |
| Visible Holes Y/N | Yes |
| Method of disposal for any USTs removed from UST 912Barracuda was removed for Subtitle "D" landfill. See Atta | rom the ground and disposed at a |
| disposal manifests) | udges, or wastewaters removed from the USTs (a |

VII. PIPING INFORMATION

| | Steel | |
|--|--|-----|
| Construction Material(ex. Steel, FRP) | & Copper | |
| Distance from UST to Dispenser | N/A | |
| Number of Dispensers | N/A | |
| Type of System Pressure or Suction | Suction | |
| Was Piping Removed from the Ground? Y/N | No | |
| Visible Corrosion or Pitting Y/N | Yes | |
| Visible Holes Y/N | No | |
| Age | Late 1950s | |
| If any corrosion, pitting, or holes were observed, Corrosion and pitting were foun | | |
| CORRESTON AND MILL THE WAY A TRAIN | d on the surface of the steer | Ve |
| pipe. Copper supply and return | lines were sound. | |
| | lines were sound. | |
| | lines were sound. | |
| pipe. Copper supply and return VIII. BRIEF SITE DESCR | RIPTION AND HISTORY | eel |
| VIII. BRIEF SITE DESCRIPTION The USTs at the residences are of | RIPTION AND HISTORY onstructed of single wall ste | eel |
| pipe. Copper supply and return VIII. BRIEF SITE DESCR | RIPTION AND HISTORY onstructed of single wall steed for heating. These USTs were | eel |
| VIII. BRIEF SITE DESCE The USTs at the residences are of and formerly contained fuel oil | RIPTION AND HISTORY onstructed of single wall steed for heating. These USTs were | eel |
| VIII. BRIEF SITE DESCE The USTs at the residences are of and formerly contained fuel oil | RIPTION AND HISTORY onstructed of single wall steed for heating. These USTs were | eel |
| VIII. BRIEF SITE DESCE The USTs at the residences are of and formerly contained fuel oil | RIPTION AND HISTORY onstructed of single wall steed for heating. These USTs were | eel |
| VIII. BRIEF SITE DESCE The USTs at the residences are of and formerly contained fuel oil | RIPTION AND HISTORY onstructed of single wall steed for heating. These USTs were | eel |

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. | | х | |
| 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.) | | х | |
| C. Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)? | | х | |
| 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. | | х | |

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# |
|-------------------|----------------------|-----------------------------|--------------------------|--------|----------------------------|-----------------|------|
| 912Bar- racuda | Excav at fill end | Soil | Sandy | 5'7" | 1/30/13 1140 hrs | P. Shaw | |
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^{* =} Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect <u>and</u> 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 th |
| 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. |
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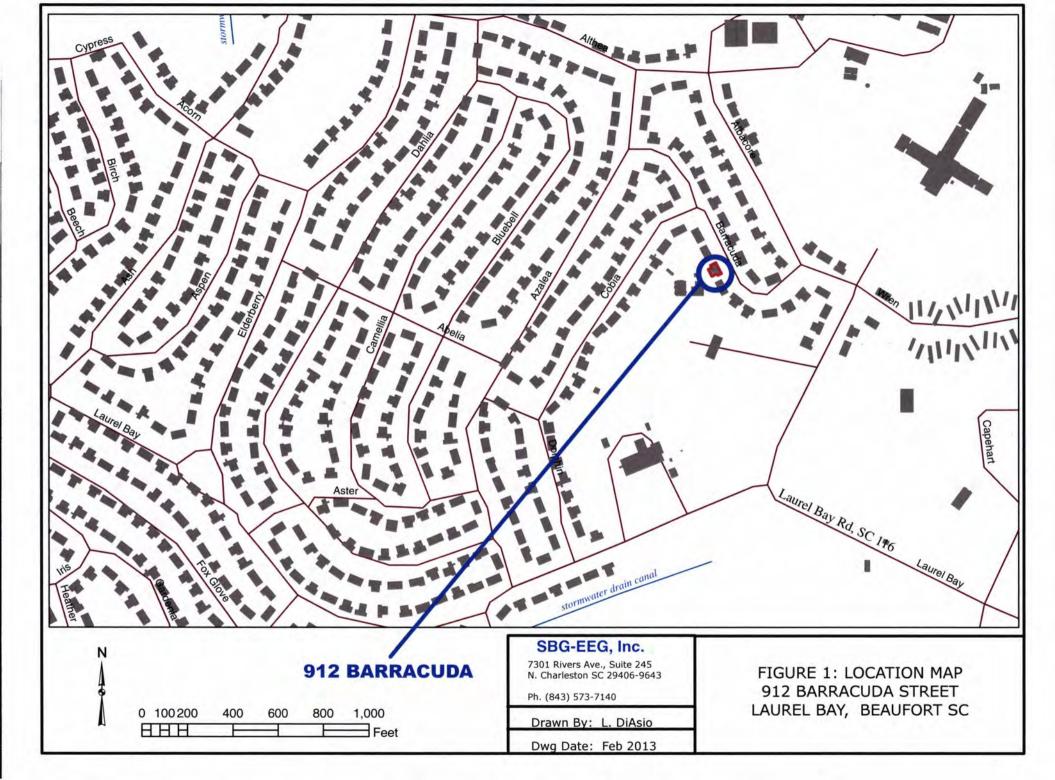
XII. RECEPTORS

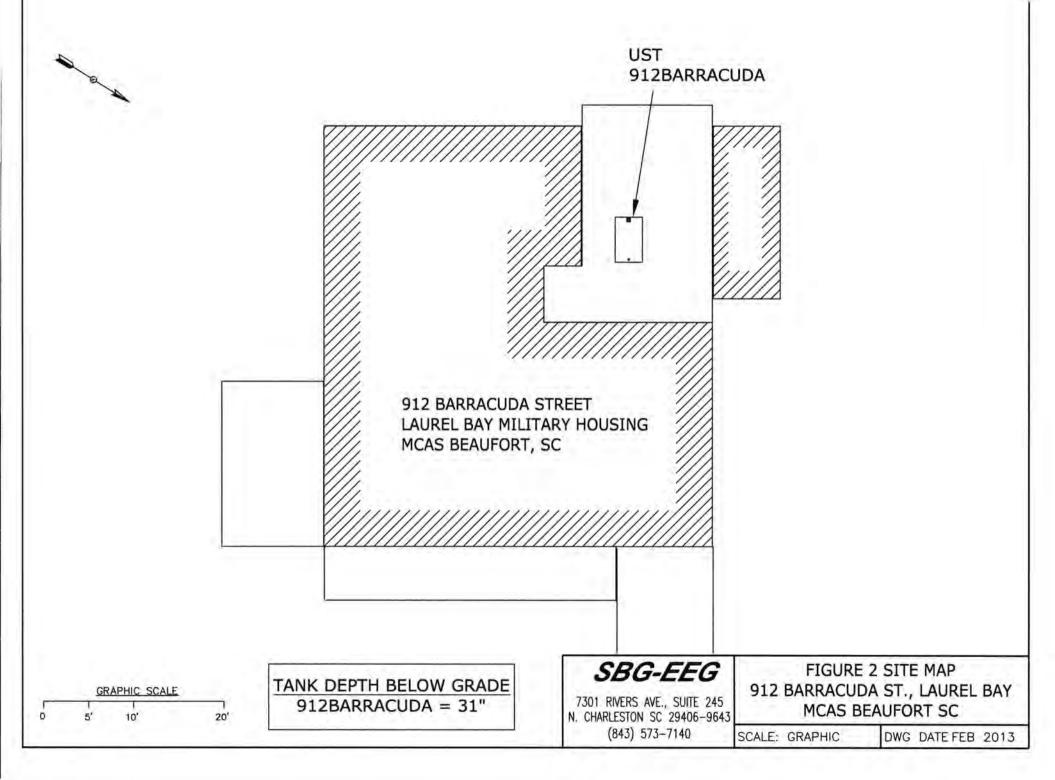
| | | Yes | No |
|----|--|-----|----|
| A. | Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? | | X |
| | If yes, indicate type of receptor, distance, and direction on site map. | | |
| В. | Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? | | Х |
| | 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? | | X |
| | 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? *Sewer, water, electricity. | *X | |
| | cable & fiber optic 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? | | Х |
| | If yes, indicate the area of contaminated soil on the site map. | | |

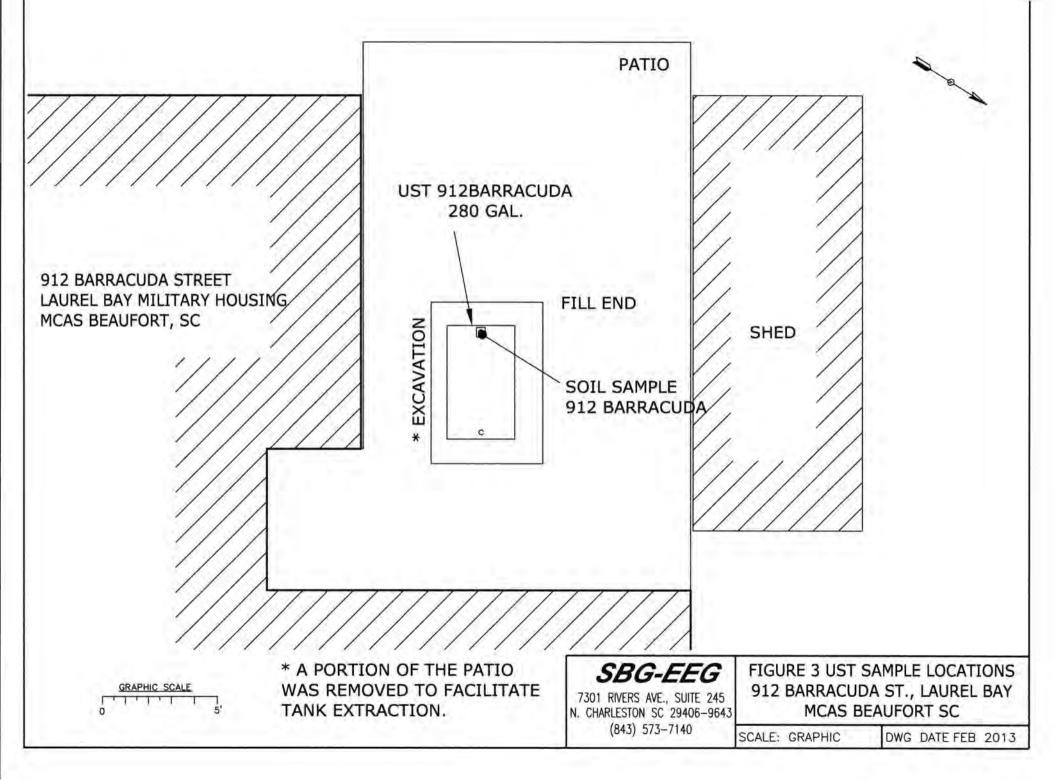
XIII. SITE MAP

You must supply a <u>scaled</u> 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)









Picture 1: Location of UST 912Barracuda.



Picture 2: UST 912Barracuda 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 | 912Barracuda | | | |
|--------------------------|--------------|-----------|---|-----|
| Benzene | ND | | | |
| Toluene | ND | | | |
| Ethylbenzene | ND | | 1 | () |
| 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) | | | | |
| СоС | | | | |
| Benzene | | | | |
| Toluene | | | | |
| Ethylbenzene | | | | |
| Xylenes | | | | |
| Naphthalene | | | | |
| Benzo (a) anthracene | | | | |
| Benzo (b) fluoranthene | | | | |
| Benzo (k) fluoranthene | | | | |
| Chrysene | | -1 [17.3] | | |
| Dibenz (a, h) anthracene | | | | |
| | | | 9 | |

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 | | | | |
| МТВЕ | 40 | | | | |
| Naphthalene | 25 | | | | |
| Benzo (a) anthracene | 10 | | | | |
| Benzo (b) flouranthene | 10 | | | | |
| Benzo (k) flouranthene | 10 | | | | |
| Chrysene | 10 | | | 1 | |
| Dibenz (a, h) anthracene | 10 | | | | |
| EDB | .05 | | | | |
| 1,2-DCA | 5 | | | | |
| Lead | Site specific | | | | |



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ANALYTICAL REPORT

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

TestAmerica Job ID: 490-18906-1

Client Project/Site: Laurel Bay Housing Project

For:

Environmental Enterprise Group 10179 Highway 78 Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Madonna Myers

Authorized for release by: 2/15/2013 3:28:33 PM Madonna Myers Project Manager I madonna.myers@testamericainc.com

Designee for Ken Hayes Project Manager I ken.hayes@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.

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Sample Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-18906-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 490-18906-1 | 814 Azalea | Soil | 01/28/13 14:25 | 02/06/13 08:30 |
| 490-18906-2 | 421 Elderberry | Soil | 01/29/13 14:45 | 02/06/13 08:30 |
| 490-18906-3 | 912 Barracuda | Soil | 01/30/13 11:40 | 02/06/13 08:30 |
| 490-18906-4 | 424 Elderberry | Soil | 01/31/13 13:35 | 02/06/13 08:30 |
| 490-18906-5 | 911 Barracuda | Soil | 01/28/13 15:15 | 02/06/13 08:30 |
| 490-18906-6 | 407 Elderberry | Soil | 01/29/13 14:30 | 02/06/13 08:30 |
| 490-18906-7 | 1028 Foxglove | Soil | 01/30/13 15:00 | 02/06/13 08:30 |
| 490-18906-8 | 427 Elderberry | Soil | 01/31/13 14:30 | 02/06/13 08:30 |

5

6

77

8

9

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12

Case Narrative

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

Job ID: 490-18906-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-18906-1

Comments

No additional comments.

Receipt

The samples were received on 2/6/2013 8:30 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: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 57363.

Method(s) 8260B: The method blank for batch 57363 contained Napthalene 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 other analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Definitions/Glossary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-18906-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| В | 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 | |
|-----------|--|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. | |
| X | Surrogate is outside control limits | |

Glossary

RER

RPD TEF

TEQ

RL

Relative error ratio

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|--|
| Ø | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDA | Minimum detectable activity |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| | |

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

Client Sample ID: 814 Azalea

Date Collected: 01/28/13 14:25 Date Received: 02/06/13 08:30

Analyte

Percent Solids

Lab Sample ID: 490-18906-1

Matrix: Soil

Percent Solids: 85.1

| ate Received. 02/00/13 08.30 | | | | | | | | reicent son | us. 65.1 |
|--------------------------------|----------------|------------|----------|----------|-------|------|------------------|----------------|----------|
| Method: 8260B - Volatile Orga | nic Compounds | (GC/MS) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.00251 | 0.000842 | mg/Kg | 12 | 02/07/13 15:37 | 02/09/13 08:31 | 1 |
| Ethylbenzene | ND | | 0.00251 | 0.000842 | mg/Kg | 373 | 02/07/13 15:37 | 02/09/13 08:31 | 1 |
| Naphthalene | ND | | 0.00628 | 0.00214 | mg/Kg | ia. | 02/07/13 15:37 | 02/09/13 08:31 | 1 |
| Toluene | ND | | 0.00251 | 0.000930 | mg/Kg | 121 | 02/07/13 15:37 | 02/09/13 08:31 | 1 |
| Xylenes, Total | ND | | 0.00628 | 0.000842 | mg/Kg | n | 02/07/13 15:37 | 02/09/13 08:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 08:31 | 1 |
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 08:31 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 08:31 | 1 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 08:31 | 1 |
| Method: 8270D - Semivolatile | Organic Compou | nds (GC/MS | S) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acenaphthene | ND | | 0.0778 | 0.0116 | mg/Kg | EX | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Acenaphthylene | ND | | 0.0778 | 0.0104 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Anthracene | ND | | 0.0778 | 0.0104 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Benzo[a]anthracene | ND | | 0.0778 | 0.0174 | mg/Kg | \$38 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Benzo[a]pyrene | 0.0685 | J | 0.0778 | 0.0139 | mg/Kg | 13 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Benzo[b]fluoranthene | 0.0439 | J | 0.0778 | 0.0139 | mg/Kg | E | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.0778 | 0.0104 | mg/Kg | 122 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Benzo[k]fluoranthene | 0.0248 | J | 0.0778 | 0.0162 | mg/Kg | 53 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| 1-Methylnaphthalene | ND | | 0.0778 | 0.0162 | mg/Kg | 525 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Pyrene | ND | | 0.0778 | 0.0139 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Phenanthrene | ND | | 0.0778 | 0.0104 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Chrysene | 0.0431 | J | 0.0778 | 0.0104 | mg/Kg | 125 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0778 | 0.00812 | mg/Kg | 828 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Fluoranthene | ND | | 0.0778 | 0.0104 | mg/Kg | £5 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Fluorene | ND | | 0.0778 | 0.0139 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| ndeno[1,2,3-cd]pyrene | ND | | 0.0778 | 0.0116 | mg/Kg | 123 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Naphthalene | ND | | 0.0778 | 0.0104 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| 2-Methylnaphthalene | ND | | 0.0778 | 0.0186 | mg/Kg | ä | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 63 | | 29 - 120 | | | | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Terphenyl-d14 (Surr) | 80 | | 13 - 120 | | | | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| Nitrobenzene-d5 (Surr) | 49 | | 27 - 120 | | | | 02/08/13 06:25 | 02/09/13 20:11 | 1 |
| General Chemistry | | | | | | | | | |
| AUGUSTO THE THINK THE PARTY OF | | | | | 44.44 | - | m C Zin district | | |

Analyzed

02/07/13 14:58

Dil Fac

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

85

Client Sample Results

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

Client Sample ID: 421 Elderberry

Date Collected: 01/29/13 14:45 Date Received: 02/06/13 08:30 Lab Sample ID: 490-18906-2

Matrix: Soil

Percent Solids: 93.9

| Dil Fac | 5 |
|---------|---|
| 1 | |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|---------|----------|-------|-----|----------------|----------------|---------|
| Benzene | ND | | 0.00232 | 0.000776 | mg/Kg | n | 02/07/13 15:37 | 02/09/13 10:32 | 1 |
| Ethylbenzene | ND | | 0.00232 | 0.000776 | mg/Kg | a | 02/07/13 15:37 | 02/09/13 10:32 | 1 |
| Naphthalene | ND | | 0.00579 | 0.00197 | mg/Kg | D | 02/07/13 15:37 | 02/09/13 10:32 | 1 |
| Toluene | ND | | 0.00232 | 0.000857 | mg/Kg | × | 02/07/13 15:37 | 02/09/13 10:32 | 1 |
| Xylenes, Total | ND | | 0.00579 | 0.000776 | mg/Kg | 300 | 02/07/13 15:37 | 02/09/13 10:32 | 1 |

| 110 | ologoto blocotto ingrig | 02101710 10.01 | 02.00/10 10.02 | |
|---------------------|-----------------------------------|--|--|--|
| %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 104 | 70 - 130 | 02/07/13 15:37 | 02/09/13 10:32 | 1 |
| 105 | 70 - 130 | 02/07/13 15:37 | 02/09/13 10:32 | 1 |
| 99 | 70 - 130 | 02/07/13 15:37 | 02/09/13 10:32 | 1 |
| 101 | 70 - 130 | 02/07/13 15:37 | 02/09/13 10:32 | 1 |
| | %Recovery Qualifier 104 105 99 | %Recovery Qualifier Limits 104 70 - 130 105 70 - 130 99 70 - 130 | %Recovery Qualifier Limits Prepared 104 70 - 130 02/07/13 15:37 105 70 - 130 02/07/13 15:37 99 70 - 130 02/07/13 15:37 | %Recovery Qualifier Limits Prepared Analyzed 104 70 - 130 02/07/13 15:37 02/09/13 10:32 105 70 - 130 02/07/13 15:37 02/09/13 10:32 99 70 - 130 02/07/13 15:37 02/09/13 10:32 |

| Method: 8270D - Semivolati | ile Organic Compoun | ds (GC/MS | 5) | | | | | | |
|----------------------------|---------------------|-----------|----------|---------|-------|------|----------------|----------------|---------|
| Analyte | Result (| Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acenaphthene | ND | | 0.0711 | 0.0106 | mg/Kg | 故 | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Acenaphthylene | ND | | 0.0711 | 0.00955 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Anthracene | ND - | | 0.0711 | 0.00955 | mg/Kg | EI. | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Benzo[a]anthracene | ND | | 0.0711 | 0.0159 | mg/Kg | Ø | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Benzo[a]pyrene | ND | | 0.0711 | 0.0127 | mg/Kg | 0 | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Benzo[b]fluoranthene | ND | | 0.0711 | 0.0127 | mg/Kg | XX. | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.0711 | 0.00955 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Benzo[k]fluoranthene | ND | | 0.0711 | 0.0149 | mg/Kg | a | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| 1-Methylnaphthalene | ND | | 0.0711 | 0.0149 | mg/Kg | 0 | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Pyrene | ND | | 0.0711 | 0.0127 | mg/Kg | 0 | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Phenanthrene | ND | | 0.0711 | 0.00955 | mg/Kg | -23 | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Chrysene | ND | | 0.0711 | 0.00955 | mg/Kg | 10 | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0711 | 0.00743 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Fluoranthene | ND | | 0.0711 | 0.00955 | mg/Kg | × | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Fluorene | ND | | 0.0711 | 0.0127 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.0711 | 0.0106 | mg/Kg | ri . | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Naphthalene | ND | | 0.0711 | 0.00955 | mg/Kg | 22 | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| 2-Methylnaphthalene | ND | | 0.0711 | 0.0170 | mg/Kg | X | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 59 | | 29 - 120 | | | | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Terphenyl-d14 (Surr) | 75 | | 13 - 120 | | | | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Nitrobenzene-d5 (Surr) | 48 | | 27 - 120 | | | | 02/08/13 06:25 | 02/09/13 21:26 | 1 |

| Percent Solids | 94 | | 0.10 | 0.10 | % | | | 02/07/13 14:58 | 1 |
|------------------------------|--------|-----------|----------|------|------|---|----------------|----------------|---------|
| General Chemistry Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Nitrobenzene-d5 (Surr) | 48 | | 27 - 120 | | | | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| Terphenyl-d14 (Surr) | 75 | | 13 - 120 | | | | 02/08/13 06:25 | 02/09/13 21:26 | 1 |
| 2-Fluorobiphenyl (Surr) | 59 | | 29 - 120 | | | | 02/08/13 06:25 | 02/09/13 21:26 | 1 |

TestAmerica Nashville

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

Client Sample ID: 912 Barracuda

Date Collected: 01/30/13 11:40 Date Received: 02/06/13 08:30

Lab Sample ID: 490-18906-3

Matrix: Soil

Percent Solids: 97.3

| ac | District Co. |
|----|--------------|
| 1 | |
| 1 | 6 |
| 1 | |
| 1 | |
| 1 | |
| ac | - 6 |
| 1 | 0 |
| 1 | 1 |
| 1 | 170 |
| 1 | 100 |
| | |

| Method: 8260B - Volatile | Organic Compounds | GC/MS) | | | | | | | |
|--------------------------|-------------------|-----------|---------|----------|-------|-----|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.00231 | 0.000774 | mg/Kg | n | 02/07/13 15:37 | 02/09/13 11:02 | 1 |
| Ethylbenzene | ND | | 0.00231 | 0.000774 | mg/Kg | n | 02/07/13 15:37 | 02/09/13 11:02 | 1 |
| Naphthalene | ND | | 0.00578 | 0.00196 | mg/Kg | n | 02/07/13 15:37 | 02/09/13 11:02 | 1 |
| Toluene | ND | | 0.00231 | 0.000855 | mg/Kg | ta | 02/07/13 15:37 | 02/09/13 11:02 | 1 |
| Xylenes, Total | ND | | 0.00578 | 0.000774 | mg/Kg | ZI. | 02/07/13 15:37 | 02/09/13 11:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery Q | ualifier Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | 70 - 130 | 02/07/13 15:37 | 02/09/13 11:02 | 1 |
| 4-Bromofluorobenzene (Surr) | 105 | 70 - 130 | 02/07/13 15:37 | 02/09/13 11:02 | 1 |
| Dibromofluoromethane (Surr) | 99 | 70 - 130 | 02/07/13 15:37 | 02/09/13 11:02 | 1 |
| Toluene-d8 (Surr) | 100 | 70 - 130 | 02/07/13 15:37 | 02/09/13 11:02 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|---------|---|-----|--------------------|----------------|-------------|
| Acenaphthene | ND | | 0.0683 | 0.0102 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Acenaphthylene | ND | | 0.0683 | 0.00917 | mg/Kg | 3,5 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Anthracene | ND | | 0.0683 | 0.00917 | mg/Kg | 33 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Benzo[a]anthracene | ND | | 0.0683 | 0.0153 | mg/Kg | ZZ. | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Benzo[a]pyrene | ND | | 0.0683 | 0.0122 | mg/Kg | 22 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Benzo[b]fluoranthene | ND | | 0.0683 | 0.0122 | mg/Kg | 13 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.0683 | 0.00917 | mg/Kg | 3.2 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Benzo[k]fluoranthene | ND | | 0.0683 | 0.0143 | mg/Kg | 32 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| 1-Methylnaphthalene | ND | | 0.0683 | 0.0143 | mg/Kg | 13 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Pyrene | ND | | 0.0683 | 0.0122 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Phenanthrene | ND | | 0.0683 | 0.00917 | mg/Kg | 32 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Chrysene | ND | | 0.0683 | 0.00917 | mg/Kg | 23 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0683 | 0.00713 | mg/Kg | 43 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Fluoranthene | ND | | 0.0683 | 0.00917 | mg/Kg | 13 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Fluorene | ND | | 0.0683 | 0.0122 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.0683 | 0.0102 | mg/Kg | 32 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Naphthalene | ND | | 0.0683 | 0.00917 | mg/Kg | 33 | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| 2-Methylnaphthalene | ND | | 0.0683 | 0.0163 | mg/Kg | E | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 65 | | 29 - 120 | | | | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Terphenyl-d14 (Surr) | 80 | | 13 - 120 | | | | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| Nitrobenzene-d5 (Surr) | 56 | | 27 - 120 | | | | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
| General Chemistry | | | | | | | | | |
| The state of the s | | | 571 | 1 273 | V 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | | 10 1 5 mm 1 1 5 mm | 200 200 2 | CONTACT FOR |

| Nitrobenzene-d5 (Surr) | 56 | | 27 - 120 | | | | 02/08/13 06:25 | 02/09/13 21:51 | 1 |
|------------------------------|--------|-----------|----------|------|------|---|----------------|----------------|---------|
| General Chemistry Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Percent Solids | 97 | | 0.10 | 0.10 | | | | 02/07/13 14:58 | 1 |

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-18906-1

Client Sample ID: 424 Elderberry

Date Collected: 01/31/13 13:35 Date Received: 02/06/13 08:30

General Chemistry

Analyte

Percent Solids

Lab Sample ID: 490-18906-4

Matrix: Soil

Percent Solids: 85.4

| BB-9-32 |
|---------|
| |
| |
| |
| |
| |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|---------|----------|-------|------|----------------|----------------|---------|
| Benzene | ND | | 0.00266 | 0.000891 | mg/Kg | 13 | 02/07/13 15:37 | 02/09/13 11:32 | 1 |
| Ethylbenzene | ND | | 0.00266 | 0.000891 | mg/Kg | - 13 | 02/07/13 15:37 | 02/09/13 11:32 | 1 |
| Naphthalene | ND | | 0.00665 | 0.00226 | mg/Kg | D | 02/07/13 15:37 | 02/09/13 11:32 | 1 |
| Toluene | ND | | 0.00266 | 0.000984 | mg/Kg | 12 | 02/07/13 15:37 | 02/09/13 11:32 | 1 |
| Xylenes, Total | ND | | 0.00665 | 0.000891 | mg/Kg | II. | 02/07/13 15:37 | 02/09/13 11:32 | 1 |

| C | 2 |
|---|---|
| 1 | 6 |
| 1 | - |
| 1 | |

| Surrogate | %Recovery Qualifi | r Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | 70 - 130 | 02/07/13 15:37 | 02/09/13 11:32 | 1 |
| 4-Bromofluorobenzene (Surr) | 103 | 70 - 130 | 02/07/13 15:37 | 02/09/13 11:32 | 1 |
| Dibromofluoromethane (Surr) | 96 | 70 - 130 | 02/07/13 15:37 | 02/09/13 11:32 | 1 |
| Toluene-d8 (Surr) | 101 | 70 - 130 | 02/07/13 15:37 | 02/09/13 11:32 | 1 |



| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 11:32 | 1 |
|-----------------------------|-------------------|-----------|----------|---------|-------|-----|----------------|----------------|---------|
| Method: 8270D - Semivolatil | le Organic Compou | nds (GC/M | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acenaphthene | ND | | 0.0782 | 0.0117 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Acenaphthylene | ND | | 0.0782 | 0.0105 | mg/Kg | C | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Anthracene | ND | | 0.0782 | 0.0105 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Benzo[a]anthracene | ND | | 0.0782 | 0.0175 | mg/Kg | a | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Benzo[a]pyrene | 0.108 | | 0.0782 | 0.0140 | mg/Kg | to. | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Benzo[b]fluoranthene | 0.0662 | J | 0.0782 | 0.0140 | mg/Kg | п | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Benzo[g,h,i]perylene | 0.0561 | J | 0.0782 | 0.0105 | mg/Kg | 17 | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Benzo[k]fluoranthene | ND | | 0.0782 | 0.0163 | mg/Kg | O | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| 1-Methylnaphthalene | ND | | 0.0782 | 0.0163 | mg/Kg | О | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Pyrene | ND | | 0.0782 | 0.0140 | mg/Kg | d | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Phenanthrene | ND | | 0.0782 | 0.0105 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Chrysene | 0.0619 | J | 0.0782 | 0.0105 | mg/Kg | T. | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0782 | 0.00817 | mg/Kg | .07 | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Fluoranthene | ND | | 0.0782 | 0.0105 | mg/Kg | α | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Fluorene | ND | | 0.0782 | 0.0140 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Indeno[1,2,3-cd]pyrene | 0.0412 | J | 0.0782 | 0.0117 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Naphthalene | ND | | 0.0782 | 0.0105 | mg/Kg | 13 | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| 2-Methylnaphthalene | ND | | 0.0782 | 0.0187 | mg/Kg | a | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 77 | | 29 - 120 | | | | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Terphenyl-d14 (Surr) | 87 | | 13 - 120 | | | | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| Nitrobenzene-d5 (Surr) | 56 | | 27 - 120 | | | | 02/08/13 06:25 | 02/09/13 22:16 | 1 |
| | | | | | | | | | |

13

Analyzed

02/07/13 14:58

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

85

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

23

Client Sample ID: 911 Barracuda

Date Collected: 01/28/13 15:15 Date Received: 02/06/13 08:30

Analyte

Percent Solids

Lab Sample ID: 490-18906-5

Matrix: Soil

Percent Solids: 94.9

| Method: 8260B - Volatile Orga | nic Compounds | (GC/MS) | | | | | | | |
|--|----------------|-------------|----------|----------|---------|-----|--|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.00217 | 0.000726 | mg/Kg | 32 | 02/07/13 15:37 | 02/09/13 09:31 | 1 |
| Ethylbenzene | ND | | 0.00217 | 0.000726 | mg/Kg | XI. | 02/07/13 15:37 | 02/09/13 09:31 | 1 |
| Naphthalene | ND | | 0.00542 | 0.00184 | mg/Kg | D | 02/07/13 15:37 | 02/09/13 09:31 | 1 |
| Toluene | ND | | 0.00217 | 0.000801 | mg/Kg | pr | 02/07/13 15:37 | 02/09/13 09:31 | 1 |
| Xylenes, Total | ND | | 0.00542 | 0.000726 | mg/Kg | D | 02/07/13 15:37 | 02/09/13 09:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 09:31 | 1 |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 09:31 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 09:31 | 1 |
| Toluene-d8 (Surr) | 102 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 09:31 | 1 |
| Method: 8270D - Semivolatile | Organic Compou | inds (GC/MS | S) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acenaphthene | ND | | 0.0699 | 0.0104 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Acenaphthylene | ND | | 0.0699 | 0.00939 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Anthracene | ND | | 0.0699 | 0.00939 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 22:41 | |
| Benzo[a]anthracene | ND | | 0.0699 | 0.0157 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Benzo[a]pyrene | ND | | 0.0699 | 0.0125 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Benzo[b]fluoranthene | ND | | 0.0699 | 0.0125 | mg/Kg | E | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.0699 | 0.00939 | mg/Kg | EF | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Benzo[k]fluoranthene | ND | | 0.0699 | 0.0146 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| 1-Methylnaphthalene | ND | | 0.0699 | 0.0146 | mg/Kg | n. | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Pyrene | ND | | 0.0699 | 0.0125 | mg/Kg | 13 | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Phenanthrene | ND | | 0.0699 | 0.00939 | mg/Kg | 13 | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Chrysene | ND | | 0.0699 | 0.00939 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0699 | 0.00730 | mg/Kg | 122 | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Fluoranthene | ND | | 0.0699 | 0.00939 | mg/Kg | 13 | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Fluorene | ND | | 0.0699 | 0.0125 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| ndeno[1,2,3-cd]pyrene | ND | | 0.0699 | 0.0104 | mg/Kg | 11 | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Naphthalene | ND | | 0.0699 | 0.00939 | mg/Kg | ü | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| 2-Methylnaphthalene | ND | | 0.0699 | 0.0167 | mg/Kg | n | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 66 | | 29 - 120 | | | | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Terphenyl-d14 (Surr) | 83 | | 13 - 120 | | | | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| Nitrobenzene-d5 (Surr) | 50 | | 27 - 120 | | | | 02/08/13 06:25 | 02/09/13 22:41 | 1 |
| General Chemistry | | | | | | | | | |
| and the second s | | | | | 2.07.67 | - | The state of the s | 20.00 | |

Analyzed

02/07/13 14:58

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

95

Dil Fac

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

Client Sample ID: 407 Elderberry

Date Collected: 01/29/13 14:30 Date Received: 02/06/13 08:30

Analyte

Percent Solids

Lab Sample ID: 490-18906-6

Matrix: Soil

Percent Solids: 96.0

| ate Received. 02/00/15 00.50 | | | | | | | | r ercent oon | us. 50.0 |
|-------------------------------|----------------|-------------|----------|----------|-------|-----|----------------|----------------|----------|
| Method: 8260B - Volatile Orga | nic Compounds | (GC/MS) | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.00218 | 0.000732 | mg/Kg | 23 | 02/07/13 15:37 | 02/09/13 12:02 | 1 |
| Ethylbenzene | ND | | 0.00218 | 0.000732 | mg/Kg | Di | 02/07/13 15:37 | 02/09/13 12:02 | 1 |
| Naphthalene | ND | | 0.00546 | 0.00186 | mg/Kg | ET. | 02/07/13 15:37 | 02/09/13 12:02 | 1 |
| Toluene | ND | | 0.00218 | 0.000808 | mg/Kg | E | 02/07/13 15:37 | 02/09/13 12:02 | 1 |
| Xylenes, Total | ND | | 0.00546 | 0.000732 | mg/Kg | E | 02/07/13 15:37 | 02/09/13 12:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 12:02 | 1 |
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 12:02 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 12:02 | 1 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 12:02 | 1 |
| Method: 8270D - Semivolatile | Organic Compou | inds (GC/MS | 3) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acenaphthene | ND | | 0.0677 | 0.0101 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Acenaphthylene | ND | | 0.0677 | 0.00909 | mg/Kg | 12 | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Anthracene | ND | | 0.0677 | 0.00909 | mg/Kg | XX. | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Benzo[a]anthracene | ND | | 0.0677 | 0.0151 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 23:06 | -1 |
| Benzo[a]pyrene | ND | | 0.0677 | 0.0121 | mg/Kg |)CE | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Benzo[b]fluoranthene | ND | | 0.0677 | 0.0121 | mg/Kg | D. | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.0677 | 0.00909 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Benzo[k]fluoranthene | ND | | 0.0677 | 0.0141 | mg/Kg | EE | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| 1-Methylnaphthalene | ND | | 0.0677 | 0.0141 | mg/Kg | Œ | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Pyrene | ND | | 0.0677 | 0.0121 | mg/Kg | Di | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Phenanthrene | ND | | 0.0677 | 0.00909 | mg/Kg | п | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Chrysene | ND | | 0.0677 | 0.00909 | mg/Kg | 0. | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0677 | 0.00707 | mg/Kg | 100 | 02/08/13 06:25 | 02/09/13 23:06 | - 1 |
| Fluoranthene | ND | | 0.0677 | 0.00909 | mg/Kg | 0 | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Fluorene | ND | | 0.0677 | 0.0121 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.0677 | 0.0101 | mg/Kg | Œ | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Naphthalene | ND | | 0.0677 | 0.00909 | mg/Kg | Œ | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| 2-Methylnaphthalene | ND | | 0.0677 | 0.0162 | mg/Kg | Ω | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 54 | | 29 - 120 | | | | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Terphenyl-d14 (Surr) | 74 | | 13 - 120 | | | | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| Nitrobenzene-d5 (Surr) | 46 | | 27 - 120 | | | | 02/08/13 06:25 | 02/09/13 23:06 | 1 |
| General Chemistry | | | | | | | | | |
| | | | | | | | | | |

Analyzed

02/07/13 14:58

RL

0.10

Result Qualifier

96

RL Unit

0.10 %

Prepared

Dil Fac

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

24

Client Sample ID: 1028 Foxglove

Date Collected: 01/30/13 15:00 Date Received: 02/06/13 08:30

Nitrobenzene-d5 (Surr)

General Chemistry

Analyte

Percent Solids

Lab Sample ID: 490-18906-7

Matrix: Soil Percent Solids: 79.2

| 79.2 | |
|------|--|
| | |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|--|----------|----------|-------|-----|----------------|----------------|---------|
| Benzene | ND | | 0.00197 | 0.000662 | mg/Kg | n | 02/07/13 15:37 | 02/09/13 12:32 | 1 |
| Ethylbenzene | ND | | 0.00197 | 0.000662 | mg/Kg | 23 | 02/07/13 15:37 | 02/09/13 12:32 | 1 |
| Naphthalene | 0.00267 | JB | 0.00494 | 0.00168 | mg/Kg | 22 | 02/07/13 15:37 | 02/09/13 12:32 | 1 |
| Toluene | ND | | 0.00197 | 0.000731 | mg/Kg | 172 | 02/07/13 15:37 | 02/09/13 12:32 | 1 |
| Xylenes, Total | ND | | 0.00494 | 0.000662 | mg/Kg | D | 02/07/13 15:37 | 02/09/13 12:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 12:32 | 1 |
| 1-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 12:32 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 12:32 | 1 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 12:32 | 1 |
| Method: 8270D - Semivolatile | | and the second s | , | | | | | | |
| Analyte | | Qualifier | RL | | Unit | D | Prepared | Analyzed | Dil Fac |
| cenaphthene | ND | | 0.0844 | 0.0126 | mg/Kg | Ø | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| cenaphthylene | ND | | 0.0844 | 0.0113 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| nthracene | 0.0327 | J | 0.0844 | 0.0113 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| enzo[a]anthracene | ND | | 0.0844 | 0.0189 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| enzo[a]pyrene | ND | | 0.0844 | 0.0151 | mg/Kg | -03 | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| enzo[b]fluoranthene | ND | | 0.0844 | 0.0151 | mg/Kg | II | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.0844 | 0.0113 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| Benzo[k]fluoranthene | ND | | 0.0844 | 0.0176 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| -Methylnaphthalene | ND | | 0.0844 | 0.0176 | mg/Kg | Œ | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| Pyrene | 0.378 | | 0.0844 | 0.0151 | mg/Kg | Œ | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| Phenanthrene | 0.128 | | 0.0844 | 0.0113 | mg/Kg | O | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| Chrysene | ND | | 0.0844 | 0.0113 | mg/Kg | ū | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0844 | 0.00882 | mg/Kg | TI. | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| luoranthene | 0.310 | | 0.0844 | 0.0113 | mg/Kg | Ø | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| luorene | ND | | 0.0844 | 0.0151 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| ndeno[1,2,3-cd]pyrene | ND | | 0.0844 | 0.0126 | mg/Kg | D | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| laphthalene | ND | | 0.0844 | 0.0113 | mg/Kg | 10. | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| -Methylnaphthalene | ND | | 0.0844 | 0.0202 | mg/Kg | Ø. | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 69 | | 29 - 120 | | | | 02/08/13 06:25 | 02/09/13 23:31 | 1 |
| Terphenyl-d14 (Surr) | 91 | | 13 - 120 | | | | 02/08/13 06:25 | 02/09/13 23:31 | 1 |

27 - 120

RL

0.10

Result Qualifier

79

02/08/13 06:25 02/09/13 23:31

Analyzed

02/07/13 14:58

Dil Fac

Prepared

RL Unit

0.10 %

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

.

Client Sample ID: 427 Elderberry

Date Collected: 01/31/13 14:30 Date Received: 02/06/13 08:30

Analyte

Percent Solids

Lab Sample ID: 490-18906-8

Matrix: Soil

Percent Solids: 92.4

| ate Received. 02/00/15 06.50 | | | | | | | | reitent son | us. 32.4 |
|--|--|-------------|----------|----------|-------|-----|----------------|----------------|----------|
| Method: 8260B - Volatile Orga | anic Compounds | (GC/MS) | | | | | | | |
| Analyte | and the second s | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.00220 | 0.000736 | mg/Kg | D | 02/07/13 15:37 | 02/09/13 13:02 | 1 |
| Ethylbenzene | ND | | 0.00220 | 0.000736 | mg/Kg | X | 02/07/13 15:37 | 02/09/13 13:02 | 1 |
| Naphthalene | ND | | 0.00549 | 0.00187 | mg/Kg | b | 02/07/13 15:37 | 02/09/13 13:02 | 1 |
| Toluene | ND | | 0.00220 | 0.000813 | mg/Kg | 13 | 02/07/13 15:37 | 02/09/13 13:02 | 1 |
| Xylenes, Total | ND | | 0.00549 | 0.000736 | mg/Kg | XX. | 02/07/13 15:37 | 02/09/13 13:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 13:02 | 1 |
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 13:02 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 13:02 | 1 |
| Toluene-d8 (Surr) | 96 | | 70 - 130 | | | | 02/07/13 15:37 | 02/09/13 13:02 | 1 |
| Method: 8270D - Semivolatile | Organic Compou | inds (GC/MS | S) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acenaphthene | ND | | 0.0719 | 0.0107 | mg/Kg | E | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Acenaphthylene | ND | | 0.0719 | 0.00966 | mg/Kg | Ω | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Anthracene | ND | | 0.0719 | 0.00966 | mg/Kg | d | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Benzo[a]anthracene | 0.0439 | J | 0.0719 | 0.0161 | mg/Kg | D | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Benzo[a]pyrene | 0.0446 | J | 0.0719 | 0.0129 | mg/Kg | E | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Benzo[b]fluoranthene | 0.0637 | J | 0.0719 | 0.0129 | mg/Kg | D | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Benzo[g,h,i]perylene | 0.0407 | J | 0.0719 | 0.00966 | mg/Kg | C | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Benzo[k]fluoranthene | 0.0289 | J | 0.0719 | 0.0150 | mg/Kg | n | 02/08/13 06:27 | 02/09/13 23:56 | - 1 |
| 1-Methylnaphthalene | ND | | 0.0719 | 0.0150 | mg/Kg | n | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Pyrene | 0.0416 | J | 0.0719 | 0.0129 | mg/Kg | n | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Phenanthrene | ND | | 0.0719 | 0.00966 | mg/Kg | E | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Chrysene | 0.0634 | J | 0.0719 | 0.00966 | mg/Kg | ĽĮ. | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0719 | 0.00752 | mg/Kg | D | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Fluoranthene | 0.0452 | J | 0.0719 | 0.00966 | mg/Kg | q | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Fluorene | ND | | 0.0719 | 0.0129 | mg/Kg | E | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.0719 | 0.0107 | mg/Kg | ri. | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Naphthalene | ND | | 0.0719 | 0.00966 | mg/Kg | n | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| 2-Methylnaphthalene | ND | | 0.0719 | 0.0172 | mg/Kg | n | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 62 | | 29 - 120 | | | | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| Terphenyl-d14 (Surr) | 79 | | 13 - 120 | | | | 02/08/13 06:27 | 02/09/13 23:56 | .1 |
| Nitrobenzene-d5 (Surr) | 52 | | 27 - 120 | | | | 02/08/13 06:27 | 02/09/13 23:56 | 1 |
| General Chemistry | | | | | | | | | |
| ALCOHOL STATE OF THE STATE OF T | ₩ | | | | ** ** | | | 4 3 7 6 1 COLO | |

Analyzed

02/07/13 14:58

Dil Fac

RL

0.10

RL Unit

0.10 %

Prepared

Result Qualifier

92

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

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

Lab Sample ID: MB 490-57363/6

Matrix: Solid

Analysis Batch: 57363

| Client | Sample | ID: Method | Blank |
|--------|--------|--|-----------|
| | | the same of the sa | 0 141 - 1 |

Prep Type: Total/NA

| С | |
|---|---|
| 1 | - |
| 1 | 7 |
| | |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|----------|-----------|---------|----------|-------|---|----------|----------------|---------|
| Benzene | ND | | 0.00200 | 0.000670 | mg/Kg | | | 02/09/13 07:31 | 1 |
| Ethylbenzene | ND | | 0.00200 | 0.000670 | mg/Kg | | | 02/09/13 07:31 | 1 |
| Naphthalene | 0.001712 | J | 0.00500 | 0.00170 | mg/Kg | | | 02/09/13 07:31 | 1 |
| Toluene | ND | | 0.00200 | 0.000740 | mg/Kg | | | 02/09/13 07:31 | 1 |
| Xylenes, Total | ND | | 0.00500 | 0.000670 | mg/Kg | | | 02/09/13 07:31 | 1 |
| | | | | | | | | | |

| | МВ | МВ | | | | |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 82 | | 70 - 130 | | 02/09/13 07:31 | 1 |
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 | | 02/09/13 07:31 | 1 |
| Dibromofluoromethane (Surr) | 93 | | 70 - 130 | | 02/09/13 07:31 | 1 |
| Toluene-d8 (Surr) | 103 | | 70 - 130 | | 02/09/13 07:31 | 1 |

Lab Sample ID: LCS 490-57363/3

Matrix: Solid

Analysis Batch: 57363

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

| | Spike | LCS | LCS | | | | %Rec. |
|----------------|--------|---------|-----------|-------|---|------|----------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Benzene | 0.0500 | 0.05034 | | mg/Kg | | 101 | 75 - 127 |
| Ethylbenzene | 0.0500 | 0.05188 | | mg/Kg | | 104 | 80 - 134 |
| Naphthalene | 0.0500 | 0.05300 | | mg/Kg | | 106 | 69 - 150 |
| Toluene | 0.0500 | 0.05082 | | mg/Kg | | 102 | 80 - 132 |
| Xylenes, Total | 0.150 | 0.1586 | | mg/Kg | | 106 | 80 - 137 |

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 99 | | 70 - 130 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 |

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Lab Sample ID: LCSD 490-57363/4

Matrix: Solid

Analysis Batch: 57363

| Analysis Daton. 57500 | Spike | LCSD | LCSD | | | | %Rec. | | RPD |
|-----------------------|--------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 0.0500 | 0.05250 | | mg/Kg | | 105 | 75 - 127 | 4 | 50 |
| Ethylbenzene | 0.0500 | 0.05504 | | mg/Kg | | 110 | 80 - 134 | 6 | 50 |
| Naphthalene | 0.0500 | 0.05799 | | mg/Kg | | 116 | 69 - 150 | 9 | 50 |
| Toluene | 0.0500 | 0.05137 | | mg/Kg | | 103 | 80 - 132 | 1 | 50 |
| Xylenes, Total | 0.150 | 0.1657 | | mg/Kg | | 110 | 80 - 137 | 4 | 50 |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 |
| Dibromofluoromethane (Surr) | 101 | | 70 - 130 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 |

TestAmerica Nashville

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

ы

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

Lab Sample ID: MB 490-57063/1-A

Matrix: Solid

Analysis Batch: 57450

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57063

| Analysis Batch: 57450 | МВ | мв | | | | | | Prep Batch | 1: 5/063 |
|------------------------|-----------|-----------|--------|---------|-------|---|----------------|----------------|----------|
| Analyte | Result | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acenaphthene | ND | | 0.0670 | 0.0100 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Acenaphthylene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Anthracene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Benzo[a]anthracene | ND | | 0.0670 | 0.0150 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Benzo[a]pyrene | ND | | 0.0670 | 0.0120 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Benzo[b]fluoranthene | ND | | 0.0670 | 0.0120 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Benzo[g,h,i]perylene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Benzo[k]fluoranthene | ND | | 0.0670 | 0.0140 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| 1-Methylnaphthalene | ND | | 0.0670 | 0.0140 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Pyrene | ND | | 0.0670 | 0.0120 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Phenanthrene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Chrysene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Dibenz(a,h)anthracene | ND | | 0.0670 | 0.00700 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Fluoranthene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Fluorene | ND | | 0.0670 | 0.0120 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 0.0670 | 0.0100 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| Naphthalene | ND | | 0.0670 | 0.00900 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 1 |
| 2-Methylnaphthalene | ND | | 0.0670 | 0.0160 | mg/Kg | | 02/08/13 06:25 | 02/09/13 19:20 | 9 |
| | МВ | MB | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

29 - 120

13 - 120

27 - 120

20 X

24

Lab Sample ID: LCS 490-57063/2-A

Matrix: Solid

Analysis Batch: 57450

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

Terphenyl-d14 (Surr)

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

02/09/13 19:20 02/09/13 19:20

02/09/13 19:20

02/08/13 06:25

02/08/13 06:25

02/08/13 06:25

Prep Batch: 57063

| Analysis Datch. 37430 | | | | | | | Frep Batch. 5700 | 3 |
|------------------------|-------|--------|-----------|-------|---|------|------------------|---|
| | Spike | LCS | LCS | | | | %Rec. | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Acenaphthylene | 1.67 | 1,351 | | mg/Kg | | 81 | 38 - 120 | |
| Anthracene | 1.67 | 1.341 | | mg/Kg | | 80 | 46 - 124 | |
| Benzo[a]anthracene | 1.67 | 1.280 | | mg/Kg | | 77 | 45 - 120 | |
| Benzo[a]pyrene | 1.67 | 1.227 | | mg/Kg | | 74 | 45 - 120 | |
| Benzo[b]fluoranthene | 1.67 | 1.168 | | mg/Kg | | 70 | 42 - 120 | |
| Benzo[g,h,i]perylene | 1.67 | 1.249 | | mg/Kg | | 75 | 38 - 120 | |
| Benzo[k]fluoranthene | 1.67 | 1.367 | | mg/Kg | | 82 | 42 - 120 | |
| 1-Methylnaphthalene | 1.67 | 1.193 | | mg/Kg | | 72 | 32 - 120 | |
| Pyrene | 1.67 | 1.233 | | mg/Kg | | 74 | 43 - 120 | |
| Phenanthrene | 1.67 | 1.444 | | mg/Kg | | 87 | 45 - 120 | |
| Chrysene | 1.67 | 1.297 | | mg/Kg | | 78 | 43 - 120 | |
| Dibenz(a,h)anthracene | 1.67 | 1.226 | | mg/Kg | | 74 | 32 - 128 | |
| Fluoranthene | 1.67 | 1.355 | | mg/Kg | | 81 | 46 - 120 | |
| Fluorene | 1.67 | 1.449 | | mg/Kg | | 87 | 42 - 120 | |
| Indeno[1,2,3-cd]pyrene | 1.67 | 1.225 | | mg/Kg | | 74 | 41 - 121 | |
| Naphthalene | 1.67 | 1.169 | | mg/Kg | | 70 | 32 - 120 | |
| 2-Methylnaphthalene | 1.67 | 1.215 | | mg/Kg | | 73 | 28 - 120 | |
| | | | | | | | | |

TestAmerica Nashville

2/15/2013

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Limits 29 - 120

13 - 120

27 - 120

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

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

LCS LCS

%Recovery Qualifier

72

81

53

Lab Sample ID: LCS 490-57063/2-A

Matrix: Solid

Surrogate

Analysis Batch: 57450

2-Fluorobiphenyl (Surr)

Nitrobenzene-d5 (Surr)

Terphenyl-d14 (Surr)

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57063

Lab Sample ID: 490-18906-1 MS

Matrix: Soil

Analysis Batch: 57450

Client Sample ID: 814 Azalea Prep Type: Total/NA

Prep Batch: 57063

| Analysis Baton. 51466 | | | 0-11 | *** | *** | | | | O/P |
|------------------------|--------|-----------|-------|--------|-----------|-------|-----|------|----------|
| | Sample | Sample | Spike | MS | | | | | %Rec. |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Acenaphthylene | ND | | 1.93 | 1.373 | | mg/Kg | ŭ | 71 | 25 - 120 |
| Anthracene | ND | | 1.93 | 1.438 | | mg/Kg | n | 74 | 28 - 125 |
| Benzo[a]anthracene | ND | | 1.93 | 1.421 | | mg/Kg | 0 | 74 | 23 - 120 |
| Benzo[a]pyrene | 0.0685 | J | 1.93 | 1.387 | | mg/Kg | 10 | 68 | 15 - 128 |
| Benzo[b]fluoranthene | 0.0439 | J | 1.93 | 1.487 | | mg/Kg | Ø | 75 | 12 - 133 |
| Benzo[g,h,i]perylene | ND | | 1.93 | 1.464 | | mg/Kg | O | 76 | 22 - 120 |
| Benzo[k]fluoranthene | 0.0248 | J | 1.93 | 1.496 | | mg/Kg | 10 | 76 | 28 - 120 |
| 1-Methylnaphthalene | ND | | 1.93 | 1.163 | | mg/Kg | 33 | 60 | 10 - 120 |
| Pyrene | ND | | 1.93 | 1.463 | | mg/Kg | X | 76 | 20 - 123 |
| Phenanthrene | ND | | 1.93 | 1.564 | | mg/Kg | ø | 81 | 21 - 122 |
| Chrysene | 0.0431 | J | 1.93 | 1.543 | | mg/Kg | 321 | 78 | 20 - 120 |
| Dibenz(a,h)anthracene | ND | | 1.93 | 1.423 | | mg/Kg | 32 | 74 | 12 - 128 |
| Fluoranthene | ND | | 1.93 | 1.507 | | mg/Kg | 33 | 78 | 10 - 143 |
| Fluorene | ND | | 1.93 | 1.319 | | mg/Kg | 33 | 68 | 20 - 120 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.93 | 1.431 | | mg/Kg | 23 | 74 | 22 - 121 |

1.93

1.93

1.177

1.216

mg/Kg

mg/Kg

MS MS

ND

ND

| Surrogate | %Recovery | Qualifier | Limits |
|-------------------------|-----------|-----------|----------|
| 2-Fluorobiphenyl (Surr) | 57 | | 29 - 120 |
| Terphenyl-d14 (Surr) | 75 | | 13 - 120 |
| Nitrobenzene-d5 (Surr) | 46 | | 27 - 120 |

Lab Sample ID: 490-18906-1 MSD

Matrix: Soil

Analysis Batch: 57450

Naphthalene 2-Methylnaphthalene

> Client Sample ID: 814 Azalea Prep Type: Total/NA

10 - 120

13 - 120

61

63

Prep Batch: 57063

| Allary Sis Datoli. State | | | | | | | | | | | |
|--|--------|-----------|-------|--------|-----------|-------|------|------|----------|-----|-------|
| A STATE OF THE PARTY OF THE PAR | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Acenaphthylene | ND | | 1.93 | 1.447 | | mg/Kg | 33 | 75 | 25 - 120 | 5 | 50 |
| Anthracene | ND | | 1.93 | 1.457 | | mg/Kg | a | 75 | 28 - 125 | 1 | 49 |
| Benzo[a]anthracene | ND | | 1.93 | 1.841 | | mg/Kg | 33 | 95 | 23 - 120 | 26 | 50 |
| Benzo[a]pyrene | 0.0685 | J | 1.93 | 1.593 | | mg/Kg | D | 79 | 15 - 128 | 14 | 50 |
| Benzo[b]fluoranthene | 0.0439 | J | 1.93 | 1.734 | | mg/Kg | 13 | 87 | 12 - 133 | 15 | 50 |
| Benzo[g,h,i]perylene | ND | | 1.93 | 1.477 | | mg/Kg | - 13 | 76 | 22 - 120 | 1 | 50 |
| Benzo[k]fluoranthene | 0.0248 | J | 1.93 | 1.733 | | mg/Kg | Ø | 88 | 28 - 120 | 15 | 45 |
| 1-Methylnaphthalene | ND | | 1.93 | 1.389 | | mg/Kg | 53 | 72 | 10 - 120 | 18 | 50 |
| Pyrene | ND | | 1.93 | 2.088 | | mg/Kg | - | 108 | 20 - 123 | 35 | 50 |
| Phenanthrene | ND | | 1.93 | 1.746 | | mg/Kg | 12 | 90 | 21 - 122 | 11 | 50 |
| Chrysene | 0.0431 | J | 1.93 | 1.837 | | mg/Kg | 377 | 93 | 20 - 120 | 17 | 49 |
| | | | | | | | | | | | |

TestAmerica Nashville

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

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

Lab Sample ID: 490-18906-1 MSD

Matrix: Soil

Analysis Batch: 57450

| Client | Sample | ID: | 814 | Azalea |
|--------|--------|-----|-----|--------|
| | _ | _ | | |

Prep Type: Total/NA

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec. | | RPD |
|------------------------|--------|-----------|-------|--------|-----------|-------|-----|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Dibenz(a,h)anthracene | ND | | 1.93 | 1.433 | | mg/Kg | n | 74 | 12 - 128 | 1 | 50 |
| Fluoranthene | ND | | 1.93 | 2.105 | | mg/Kg | n | 109 | 10 - 143 | 33 | 50 |
| Fluorene | ND | | 1.93 | 1.440 | | mg/Kg | 525 | 74 | 20 - 120 | 9 | 50 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.93 | 1.474 | | mg/Kg | 22 | 76 | 22 - 121 | 3 | 50 |
| Naphthalene | ND | | 1.93 | 1.344 | | mg/Kg | n | 69 | 10 - 120 | 13 | 50 |
| 2-Methylnaphthalene | ND | | 1.93 | 1.354 | | mg/Kg | Ħ | 70 | 13 - 120 | 11 | 50 |
| | | | | | | | | | | | |

| Surrogate | %Recovery | Qualifier | Limits |
|-------------------------|-----------|-----------|----------|
| 2-Fluorobiphenyl (Surr) | 63 | | 29 - 120 |
| Terphenyl-d14 (Surr) | 73 | | 13 - 120 |
| Nitrobenzene-d5 (Surr) | 52 | | 27 - 120 |

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 57063

Method: Moisture - Percent Moisture

Lab Sample ID: 490-18871-D-1 DU

Matrice Calld

Analyte Percent Solids

| Watrix. Solid | | | |
|-----------------------|--------|--------|--|
| Analysis Batch: 56976 | | | |
| | Sample | Sample | |

| Sample | Sample | DU | DU | | | | RPD |
|--------|-----------|--------|-----------|------|---|-----|-------|
| Result | Qualifier | Result | Qualifier | Unit | D | RPD | Limit |
| 93 | | 94 | | % | | 1 | 20 |

2/15/2013

QC Association Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-18906-1

2

GC/MS VOA

| Prep | Batch | : 57009 |
|------|-------|---------|
|------|-------|---------|

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 490-18906-1 | 814 Azalea | Total/NA | Soil | 5035 | |
| 490-18906-2 | 421 Elderberry | Total/NA | Soil | 5035 | |
| 490-18906-3 | 912 Barracuda | Total/NA | Soil | 5035 | |
| 490-18906-4 | 424 Elderberry | Total/NA | Soil | 5035 | |
| 490-18906-5 | 911 Barracuda | Total/NA | Soil | 5035 | |
| 490-18906-6 | 407 Elderberry | Total/NA | Soil | 5035 | |
| 490-18906-7 | 1028 Foxglove | Total/NA | Soil | 5035 | |
| 490-18906-8 | 427 Elderberry | Total/NA | Soil | 5035 | |

Analysis Batch: 57363

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------------|-----------|--------|--------|------------|
| 490-18906-1 | 814 Azalea | Total/NA | Soil | 8260B | 57009 |
| 490-18906-2 | 421 Elderberry | Total/NA | Soil | 8260B | 57009 |
| 490-18906-3 | 912 Barracuda | Total/NA | Soil | 8260B | 57009 |
| 490-18906-4 | 424 Elderberry | Total/NA | Soil | 8260B | 57009 |
| 490-18906-5 | 911 Barracuda | Total/NA | Soil | 8260B | 57009 |
| 490-18906-6 | 407 Elderberry | Total/NA | Soil | 8260B | 57009 |
| 490-18906-7 | 1028 Foxglove | Total/NA | Soil | 8260B | 57009 |
| 490-18906-8 | 427 Elderberry | Total/NA | Soil | 8260B | 57009 |
| LCS 490-57363/3 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 490-57363/4 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |
| MB 490-57363/6 | Method Blank | Total/NA | Solid | 8260B | |
| | | | | | |

GC/MS Semi VOA

Prep Batch: 57063

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 490-18906-1 | 814 Azalea | Total/NA | Soil | 3550C | |
| 490-18906-1 MS | 814 Azalea | Total/NA | Soil | 3550C | |
| 490-18906-1 MSD | 814 Azalea | Total/NA | Soil | 3550C | |
| 490-18906-2 | 421 Elderberry | Total/NA | Soil | 3550C | |
| 490-18906-3 | 912 Barracuda | Total/NA | Soil | 3550C | |
| 490-18906-4 | 424 Elderberry | Total/NA | Soil | 3550C | |
| 490-18906-5 | 911 Barracuda | Total/NA | Soil | 3550C | |
| 490-18906-6 | 407 Elderberry | Total/NA | Soil | 3550C | |
| 490-18906-7 | 1028 Foxglove | Total/NA | Soil | 3550C | |
| 490-18906-8 | 427 Elderberry | Total/NA | Soil | 3550C | |
| LCS 490-57063/2-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| MB 490-57063/1-A | Method Blank | Total/NA | Solid | 3550C | |

Analysis Batch: 57450

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| 490-18906-1 | 814 Azalea | Total/NA | Soil | 8270D | 57063 |
| 490-18906-1 MS | 814 Azalea | Total/NA | Soil | 8270D | 57063 |
| 490-18906-1 MSD | 814 Azalea | Total/NA | Soil | 8270D | 57063 |
| 490-18906-2 | 421 Elderberry | Total/NA | Soil | 8270D | 57063 |
| 490-18906-3 | 912 Barracuda | Total/NA | Soil | 8270D | 57063 |
| 490-18906-4 | 424 Elderberry | Total/NA | Soil | 8270D | 57063 |
| 490-18906-5 | 911 Barracuda | Total/NA | Soil | 8270D | 57063 |
| 490-18906-6 | 407 Elderberry | Total/NA | Soil | 8270D | 57063 |

TestAmerica Nashville

QC Association Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-18906-1

2

GC/MS Semi VOA (Continued)

Analysis Batch: 57450 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 490-18906-7 | 1028 Foxglove | Total/NA | Soil | 8270D | 57063 |
| 490-18906-8 | 427 Elderberry | Total/NA | Soil | 8270D | 57063 |
| LCS 490-57063/2-A | Lab Control Sample | Total/NA | Solid | 8270D | 57063 |
| MB 490-57063/1-A | Method Blank | Total/NA | Solid | 8270D | 57063 |

6

General Chemistry

Analysis Batch: 56976

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|------------|------------|
| 490-18871-D-1 DU | Duplicate | Total/NA | Solid | Moisture | |
| 490-18906-1 | 814 Azalea | Total/NA | Soil | Moisture | |
| 490-18906-2 | 421 Elderberry | Total/NA | Soil | Moisture | |
| 490-18906-3 | 912 Barracuda | Total/NA | Soil | Moisture | |
| 490-18906-4 | 424 Elderberry | Total/NA | Soil | Moisture | |
| 490-18906-5 | 911 Barracuda | Total/NA | Soil | * Moisture | |
| 490-18906-6 | 407 Elderberry | Total/NA | Soil | Moisture | |
| 490-18906-7 | 1028 Foxglove | Total/NA | Soil | Moisture | |
| 490-18906-8 | 427 Elderberry | Total/NA | Soil | Moisture | |

TestAmerica Nashville

Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

Client Sample ID: 814 Azalea

Date Collected: 01/28/13 14:25 Date Received: 02/06/13 08:30

Lab Sample ID: 490-18906-1

Matrix: Soil

Percent Solids: 85.1

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|---------------|-----------------|-----|--------------------|-----------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 57009 | 02/07/13 15:37 | ML | TAL NSH |
| Total/NA | Analysis | 8260B | | 1 | 57363 | 02/09/13 08:31 | МН | TAL NSH |
| Total/NA | Prep | 3550C | | | 57063 | 02/08/13 06:25 | AK | TAL NSH |
| Total/NA | Analysis | 8270D | | 1 | 57450 | 02/09/13 20:11 | BS | TAL NSH |
| Total/NA | Analysis | Moisture | | 1 | 56976 | 02/07/13 14:58 | RS | TAL NSH |

Client Sample ID: 421 Elderberry

Date Collected: 01/29/13 14:45 Date Received: 02/06/13 08:30

Lab Sample ID: 490-18906-2

Matrix: Soil

Percent Solids: 93.9

Batch Dilution Batch Batch Prepared **Prep Type** Method Type Run Factor Number or Analyzed Analyst Lab Total/NA Prep 5035 57009 02/07/13 15:37 ML TAL NSH Total/NA 8260B TAL NSH Analysis 57363 02/09/13 10:32 MH Total/NA Prep 3550C 57063 02/08/13 06:25 AK TAL NSH Total/NA Analysis 8270D 57450 02/09/13 21:26 TAL NSH Total/NA 56976 02/07/13 14:58 TAL NSH Analysis Moisture RS

Lab Sample ID: 490-18906-3

Matrix: Soil

Percent Solids: 97.3

Client Sample ID: 912 Barracuda

Date Collected: 01/30/13 11:40 Date Received: 02/06/13 08:30

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 57009 | 02/07/13 15:37 | ML | TAL NSH |
| Total/NA | Analysis | 8260B | | 1 | 57363 | 02/09/13 11:02 | МН | TAL NSH |
| Total/NA | Prep | 3550C | | | 57063 | 02/08/13 06:25 | AK | TAL NSH |
| Total/NA | Analysis | 8270D | | 1 | 57450 | 02/09/13 21:51 | BS | TAL NSH |
| Total/NA | Analysis | Moisture | | 1 | 56976 | 02/07/13 14:58 | RS | TAL NSH |

Client Sample ID: 424 Elderberry

Date Collected: 01/31/13 13:35

Date Received: 02/06/13 08:30

Lab Sample ID: 490-18906-4

Matrix: Soil

Percent Solids: 85.4

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|---------------|-----------------|-----|--------------------|-----------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 57009 | 02/07/13 15:37 | ML | TAL NSH |
| Total/NA | Analysis | 8260B | | 1 | 57363 | 02/09/13 11:32 | МН | TAL NSH |
| Total/NA | Prep | 3550C | | | 57063 | 02/08/13 06:25 | AK | TAL NSH |
| Total/NA | Analysis | 8270D | | 1 | 57450 | 02/09/13 22:16 | BS | TAL NSH |
| Total/NA | Analysis | Moisture | | 1 | 56976 | 02/07/13 14:58 | RS | TAL NSH |

Lab Chronicle

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project TestAmerica Job ID: 490-18906-1

D

Client Sample ID: 911 Barracuda

Date Collected: 01/28/13 15:15 Date Received: 02/06/13 08:30 Lab Sample ID: 490-18906-5

Matrix: Soil

Percent Solids: 94.9

| | Batch | Batch | | Dilution | Batch | Prepared | | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|--|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab | |
| Total/NA | Prep | 5035 | | | 57009 | 02/07/13 15:37 | ML | TAL NSH | |
| Total/NA | Analysis | 8260B | | 1 | 57363 | 02/09/13 09:31 | MH | TAL NSH | |
| Total/NA | Prep | 3550C | | | 57063 | 02/08/13 06:25 | AK | TAL NSH | |
| Total/NA | Analysis | 8270D | | 1 | 57450 | 02/09/13 22:41 | BS | TAL NSH | |
| Total/NA | Analysis | Moisture | | 1 | 56976 | 02/07/13 14:58 | RS | TAL NSH | |

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Client Sample ID: 407 Elderberry

Date Collected: 01/29/13 14:30 Date Received: 02/06/13 08:30 Lab Sample ID: 490-18906-6

Matrix: Soil

Percent Solids: 96.0

| Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---------------|----------------------------------|--|--|---|--|--|--|
| Prep | 5035 | | | 57009 | 02/07/13 15:37 | ML | TAL NSH |
| Analysis | 8260B | | 1 | 57363 | 02/09/13 12:02 | МН | TAL NSH |
| Prep | 3550C | | | 57063 | 02/08/13 06:25 | AK | TAL NSH |
| Analysis | 8270D | | 1 | 57450 | 02/09/13 23:06 | BS | TAL NSH |
| Analysis | Moisture | | 1 | 56976 | 02/07/13 14:58 | RS | TAL NSH |
| | Type Prep Analysis Prep Analysis | Type Method Prep 5035 Analysis 8260B Prep 3550C Analysis 8270D | Type Method Run Prep 5035 Analysis 8260B Prep 3550C Analysis 8270D | Type Method Run Factor Prep 5035 1 Analysis 8260B 1 Prep 3550C 3550C Analysis 8270D 1 | Type Method Run Factor Number Prep 5035 57009 Analysis 8260B 1 57363 Prep 3550C 57063 Analysis 8270D 1 57450 | Type Method Run Factor Number or Analyzed Prep 5035 57009 02/07/13 15:37 Analysis 8260B 1 57363 02/09/13 12:02 Prep 3550C 57063 02/08/13 06:25 Analysis 8270D 1 57450 02/09/13 23:06 | Type Method Run Factor Number or Analyzed Analyst Prep 5035 57009 02/07/13 15:37 ML Analysis 8260B 1 57363 02/09/13 12:02 MH Prep 3550C 57063 02/08/13 06:25 AK Analysis 8270D 1 57450 02/09/13 23:06 BS |

12

Client Sample ID: 1028 Foxglove

Date Collected: 01/30/13 15:00

Date Received: 02/06/13 08:30

Lab Sample ID: 490-18906-7

Matrix: Soil

Percent Solids: 79.2

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 57009 | 02/07/13 15:37 | ML | TAL NSH |
| Total/NA | Analysis | 8260B | | 1 | 57363 | 02/09/13 12:32 | MH | TAL NSH |
| Total/NA | Prep | 3550C | | | 57063 | 02/08/13 06:25 | AK | TAL NSH |
| Total/NA | Analysis | 8270D | | 1 | 57450 | 02/09/13 23:31 | BS | TAL NSH |
| Total/NA | Analysis | Moisture | | 1 | 56976 | 02/07/13 14:58 | RS | TAL NSH |

Client Sample ID: 427 Elderberry

Date Collected: 01/31/13 14:30

Date Received: 02/06/13 08:30

Lab Sample ID: 490-18906-8

Matrix: Soil

Percent Solids: 92.4

| Batch | Batch | | Dilution | Batch | Prepared | | |
|----------|--------------------------------------|--|--|--|--|--|--|
| Type | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Prep | 5035 | | | 57009 | 02/07/13 15:37 | ML | TAL NSH |
| Analysis | 8260B | | 1 | 57363 | 02/09/13 13:02 | МН | TAL NSH |
| Prep | 3550C | | | 57063 | 02/08/13 06:27 | AK | TAL NSH |
| Analysis | 8270D | | .1 | 57450 | 02/09/13 23:56 | BS | TAL NSH |
| Analysis | Moisture | | 1 | 56976 | 02/07/13 14:58 | RS | TAL NSH |
| | Prep Analysis Prep Analysis | Type Method Prep 5035 Analysis 8260B Prep 3550C Analysis 8270D | Type Method Run Prep 5035 Analysis 8260B Prep 3550C Analysis 8270D | Type Method Run Factor Prep 5035 5035 5035 5035 5035 6035 <td< td=""><td>Type Method Run Factor Number Prep 5035 57009 Analysis 8260B 1 57363 Prep 3550C 57063 Analysis 8270D 1 57450</td><td>Type Method Run Factor Number or Analyzed Prep 5035 57009 02/07/13 15:37 Analysis 8260B 1 57363 02/09/13 13:02 Prep 3550C 57063 02/08/13 06:27 Analysis 8270D 1 57450 02/09/13 23:56</td><td>Type Method Run Factor Number or Analyzed Analyst Prep 5035 57009 02/07/13 15:37 ML Analysis 8260B 1 57363 02/09/13 13:02 MH Prep 3550C 57063 02/08/13 06:27 AK Analysis 8270D 1 57450 02/09/13 23:56 BS</td></td<> | Type Method Run Factor Number Prep 5035 57009 Analysis 8260B 1 57363 Prep 3550C 57063 Analysis 8270D 1 57450 | Type Method Run Factor Number or Analyzed Prep 5035 57009 02/07/13 15:37 Analysis 8260B 1 57363 02/09/13 13:02 Prep 3550C 57063 02/08/13 06:27 Analysis 8270D 1 57450 02/09/13 23:56 | Type Method Run Factor Number or Analyzed Analyst Prep 5035 57009 02/07/13 15:37 ML Analysis 8260B 1 57363 02/09/13 13:02 MH Prep 3550C 57063 02/08/13 06:27 AK Analysis 8270D 1 57450 02/09/13 23:56 BS |

Laboratory References:

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

Method Summary

Client: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-18906-1

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| 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: Environmental Enterprise Group Project/Site: Laurel Bay Housing Project

TestAmerica Job ID: 490-18906-1

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Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|----------------------------------|---------------|------------|------------------|-----------------|
| | ACIL | | 393 | 10-30-13 |
| A2LA | ISO/IEC 17025 | | 0453.07 | 12-31-13 |
| Alabama | State Program | 4 | 41150 | 05-31-13 |
| Alaska (UST) | State Program | 10 | UST-087 | 07-24-13 |
| Arizona | State Program | 9 | AZ0473 | 05-05-13 |
| Arkansas DEQ | State Program | 6 | 88-0737 | 04-25-13 |
| California | NELAP | 9 | 1168CA | 10-31-13 |
| Canadian Assoc Lab Accred (CALA) | Canada | | 3744 | 03-08-14 |
| Colorado | State Program | 8 | N/A | 02-28-13 |
| Connecticut | State Program | 1 | PH-0220 | 12-31-13 |
| Florida | NELAP | 4 | E87358 | 06-30-13 |
| linois | NELAP | 5 | 200010 | 12-09-13 |
| owa | State Program | 7 | 131 | 05-01-14 |
| Kansas | NELAP | 7 | E-10229 | 10-31-13 |
| Kentucky (UST) | State Program | 4 | 19 | 09-15-13 |
| ouisiana | NELAP | 6 | 30613 | 06-30-13 |
| Maryland | State Program | 3 | 316 | 03-31-13 |
| Massachusetts | State Program | 1 | M-TN032 | 06-30-13 |
| Minnesota | NELAP | 5 | 047-999-345 | 12-31-13 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana (UST) | State Program | 8 | NA | 01-01-15 |
| Nevada | State Program | 9 | TN00032 | 07-31-13 |
| New Hampshire | NELAP | 1 | 2963 | 10-09-13 |
| New Jersey | NELAP | 2 | TN965 | 06-30-13 |
| New York | NELAP | 2 | 11342 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 387 | 12-31-13 |
| lorth Dakota | State Program | 8 | R-146 | 06-30-13 |
| Dhio VAP | State Program | .5 | CL0033 | 01-19-14 |
| Oklahoma | State Program | 6 | 9412 | 08-31-13 |
| Dregon | NELAP | 10 | TN200001 | 04-30-13 |
| Pennsylvania | NELAP | 3 | 68-00585 | 06-30-13 |
| Rhode Island | State Program | 1 | LAO00268 | 12-30-13 |
| South Carolina | State Program | 4 | 84009 (001) | 02-28-13 |
| South Carolina | State Program | 4 | 84009 (002) | 02-23-14 |
| Tennessee | State Program | 4 | 2008 | 02-23-14 |
| exas | NELAP | 6 | T104704077-09-TX | 08-31-13 |
| JSDA | Federal | | S-48469 | 11-02-13 |
| Itah | NELAP | 8 | TAN | 06-30-13 |
| /irginia | NELAP | 3 | 460152 | 06-14-13 |
| Vashington | State Program | 10 | C789 | 07-19-13 |
| Vest Virginia DEP | State Program | 3 | 219 | 02-28-13 |
| Visconsin | State Program | 5 | 998020430 | 08-31-13 |
| Nyoming (UST) | A2LA | 8 | 453.07 | 12-31-13 |

THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN

Cooler Received/Opened On: 2/6/2013 @0830

COOLER RECEIPT FORM



| 1. Tracking | # 9630 | (last 4 digits, FedEx | () | | 200002 |
|------------------|---------------------------|------------------------------|-----------------|--------------------|------------|
| Courier: | Fed-Ex | IR Gun ID: 14740456 | | | |
| 2. Temperat | ure of rep. sample or to | emp blank when opened: | -0.4 De | grees Celsius | 100 |
| 3. If Item #2 t | temperature is 0°C or le | ess, was the representation | ve sample or te | mp blank frozen? | YES NONA |
| 4. Were cust | ody seals on outside o | f cooler? | | | YESNONA |
| If yes, how | w many and where: | | IFron | | |
| 5. Were the s | seals intact, signed, an | d dated correctly? | | | YES NONA |
| 6. Were cust | ody papers inside cool | er? | | (| YESNONA |
| I certify that I | opened the cooler and | answered questions 1-6 | (intial) | | 0 |
| 7. Were cust | ody seals on container | s: YES | NO | and Intact | YESNO. NA |
| Were these | e signed and dated cor | rectly? | | | YESNO. NA |
| 8. Packing m | at'l used? Bubblewrap | Plastic bag Peanuts | Vermiculite F | oam Insert Paper | Other None |
| 9. Cooling pr | rocess; | Ice Ice-pac | k Ice (direct | contact) Dry ice | Other None |
| 10. Did all co | ontainers arrive in good | condition (unbroken)? | | (| YESNONA |
| 11. Were all o | container labels compl | ete (#, date, signed, pres. | , etc)? | | YESNONA |
| 12. Did all co | ontainer labels and tags | agree with custody pape | ers? | ζ | YESNONA |
| 13a. Were VC | OA vials received? | | | (| YESNONA |
| b. Was the | ere any observable hea | dspace present in any VC | A vial? | | YESNONA |
| 14. Was there | e a Trip Blank in this co | ooler? YESNO.(N | A) If multiple | coolers, sequence | # |
| certify that I | unloaded the cooler a | nd answered questions 7 | -14 (Intial) | V | \sim |
| 15a. On pres | 'd bottles, did pH test s | strips suggest preservation | on reached the | correct pH level? | YESNO.NA |
| b. Did the | bottle labels indicate t | hat the correct preservat | lves were used | | YES. NONA |
| 16. Was resid | dual chlorine present? | | | | YESNONA |
| certify that I | checked for chlorine a | nd pH as per SOP and ar | swered question | ons 15-16 (intial) | -m |
| 17. Were cus | tody papers properly f | illed out (ink, signed, etc) | ? | (| YES NO NA |
| 18. Did you s | sign the custody papers | s in the appropriate place | 7 | (| YES)NONA |
| 19. Were con | rect containers used fo | or the analysis requested | 7 | (| YES, .NONA |
| 20. Was suffi | cient amount of sampl | e sent in each container? | | (| YES NO NA |
| certify that I | entered this project in | to LIMS and answered qu | estions 17-20 (| intial) | m |
| certify that I | attached a label with the | ne unique LIMS number t | o each contain | er (intial) | 5 |
| 21. Were ther | re Non-Conformance is | sues at login? YESNO | Was a NCM g | enerated? YESN | 0# |

Page 25 30ft 290 with report

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B/22

2/15/2013

| Relinquished by: | Reinquisined by: | Dallam dakad hu | | Spacial Instructions: | | | | | | 1 | 427 | 1028 | 7 (.0h | 1116 | Sample ID / Description | | | | | | | | • | THE LEADER |
|--------------------------|------------------|-----------------|--|-----------------------|-----|------|----------|---|---|----------|-------------|----------|------------|-----------|--|--------------|--------------------|--|--------------------------------|--|----------------------------------|---------------------------|---|--|
| / | The | 1 | 111 | ne: | | | | | | , | IT BERDERRY | Foxolout | Elderberry | BARRACUDA | iption | | Sampler Signature: | Sampler Name: (Print) | Telephone Number: 843.412.2097 | Project Manager: Tom McElwee email: mcelwee@eeginc.net | City/State/Zip: Ladson, SC 29456 | Address: | Client Name/Account #: EEG - SBG # 2449 | LESTAMETICA THE LEADER IN ENVIRONMENTAL TESTING |
| Date | 2/5/ | Mato | | - | | | | | | | 1/5//13 | 1/30/13 | 1/29/13 | 1/28/13 | Date Sampled | | 8 | Pre | 843.412.2097 | Tom McElwee er | Ladson, SC 294 | Address: 10179 Highway 78 | EEG - SBG # 24 | |
| | Ü | 1 | | | | | | | | | 1930 | 1500 | 1430 | 1515 | Time Sampled | 1 | MILLE | ATA | | mail: moelwo | 86 | 78 | 49 | Nashville Division 2960 Foster Creighton Nashville, TN 37204 |
| Time | 080 | 1 | | | | | | | | | 5 | 3 | 6 | 3 | No. of Containers Shipped | | 1 | 30 | | 990 | | | | ivisio r Crei TN 37 |
| 8 | 8. | 3 | | T | | | | П | Г | | × | × | × | × | Grab | 1 | | 240 | | eginc. | | | | ighto 204 |
| Rece | 1 | Day | | Ī | | | | П | | | | | | | Composite | | | 9 | | net | | | | 5 |
| wedt | 1-1 | 1 | | T | | | | П | | | | | | | Field Filtered | | | | 7 | | | | | |
| ved by Tes | 8 | 1 | Meth | F | | | | П | | | | | | | Ice | П | | | N. | | | | | |
| Received by TestAmerica: | X | | Method of Shipment: | H | + | | | H | H | \vdash | 1. | N | 20 | N | HO, (Red Label) | 1 | | | Fax No.: 843 | | | | | 70 |
| | | | Shi | t | | | | | | | | | | - | NaOH (Orange Label) | reservative | | | 45 | - | | 1 | | Pho |
| -0.4 | | | omen | | | | | | | | L | | | | H ₂ SO ₄ Plestic (Yellow Label) | vativ | | | 3 | | | | | x 6 6 |
| 4 | | 1 | il | + | + | - | | - | - | - | と | 10 | N | N | H ₂ SO ₄ Glass(Yellow Label) None (Black Label) | - | | | 040-528- | | | | | Phone: 615-726-0177 Toll Free: 800-765-0980 Fax: 615-726-3404 |
| | | 1 | | - | | | | | | | 2 | - | - | - | Other (Spilly) ME AL | 24 | / | 1 | 3 | | | | | 26-0 65-0 26-3 |
| | | | | | | | | | | | | | | | Groundwater | П | | | a | | | | | 7 8 2 |
| 3 | | | | - | - | - | - | - | - | H | - | - | - | H | Wastewater Drinking Water | - | | | 140 | | | | | |
| Date | 1 | Date | | - | + | | \dashv | | - | - | \vdash | - | - | - | Sludge | Matrix | | | 0 | | ł | | | |
| - | | | H | | | | 1 | | | | × | × | × | × | Soil | | | • | | | | • | | |
| 2 | | | FEDEX | - | | | 4 | _ | _ | - | _ | - | | | Other (specify): | H | | | - | | | | | |
| Date Time | | Time | | | | | 1 | | | | × | × | X | × | BTEX + Napth - 8260 | | Pro | Proje | TA Quote #: | | Site | | | |
| ه ر | | 1 | | | | | T | | | | × | × | X | X | PAH - 8270D | 11 | Project #: | ect II | ote # | PO#: | State | | | |
| | | _ | | 5 | + | | + | | - | \vdash | - | | - | | PAN1-02/00 | 11 | 1 | Project ID: Laurel Bay Housing Project | 1" | 1 | Site State: SC | | | me To |
| | | | | borra | - | | L | | - | - | - | - | - | | | 11 | | urel B | | | 1 | | | assis thods julato |
| | | 1 | emp /ocs | Laboratory Comments: | | | | | | | | | | | | | | ay H | | 6 | | | | To assist us in using to methods, is this work regulatory purposes? |
| | | - | eratu | Comi | 1 | | | | | 6 | - | F | | - | |], | | ousin | | 063 | 1 | | | n usir his wo |
| | | | of H | nent: | + | 1 | | - | - | - | 80 | Η. | - | - | | Analyze For: | | g Pro | | W | | Enf | Com | SS P |
| | | - | on R | Ľ | 4 | 1 | | _ | L | L | 1 | 1 | 2 | 4 | | 78 Fo | | eq | | | | orcer | pliano | eing o |
| | | - | Temperature Upon Receipt VOCs Free of Headspace? | | | 11 | | | | | | | | | | a | | | | | | Enforcement Action? | Compliance Monitoring? | To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes? |
| | | | * A | | | T | | | | | | | | | | 11 | | | | | | Action | niton | nalyti |
| | | | | 1 | + | H | | - | - | - | - | - | - | - | | 1 | | | | | | 77 | ng? | ₫, 17 |
| | | | | L | | Ш | | _ | _ | L | | | | - | | 11 | | | | | | | | |
| | | | | | - | | | | | | | | | | | | 1 | | | | | Yes | Yes | |
| | | | | | 1 | | | | | Г | | | | | | | | | | | | | | |
| | | | < | - | 1 | | | - | - | - | | - | - | | RUSH TAT (Pre-Schedule | ۲ | | | | | | 2 | Z | |
| | | | | 1 | # | | | - | - | - | - | - | - | | Standard TAT | 1 | | | | | | 8 | No | |
| | | - | z | 1 | H | - | | - | - | - | - | - | - | - | | 1 | | | | | | 1 | 1 | |
| | | - | | H | 4 | | - | - | - | - | - | - | - | - | Fax Results | 1 | | | | | | | | |
| | | | | 1/ | - 1 | 0.00 | 11 | 1 | 1 | 11 | 1 0 | | Lo | h | Sept OC with report | | | 1 | | 1 | 1 | | | |

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2/15/2013

Login Sample Receipt Checklist

Client: Environmental Enterprise Group Job Number: 490-18906-1

List Source: TestAmerica Nashville

Login Number: 18906 List Number: 1

Creator: Gambill, Shane

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

| Creator: Gambill, Shane | | |
|--|--------|---------|
| Question | Answer | Comment |
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| 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 | -0.4 |
| 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 | |
| | | |

True

N/A

True

True

N/A



















<6mm (1/4").

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.

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)

ATTACHMENT A



NON-HAZARDOUS MANIFEST

| WASTE WATCHELLI | | | | | | | | |
|--|---------------------------|------------------------------|--------------------------|-------------------------|----------------|----------------|---|------------|
| NON-HAZARDOUS MANIFEST | 1. Generator's US EP | | Manifest Doc | No. | 2. Page 1 | | - | |
| 3. Generator's Mailing Address: MCAS BEAUFORT | Ger | nerator's Site Addre | ess (If different than m | ailing): | 1 | st Number | 015191 | 02 |
| LAUREL BAY HOUSING BEAUFORT, SC 29904 4. Generator's Phone 843-8 | 379-0411 | | | | | B. State | Generator's ID | |
| 5. Transporter 1 Company Name | | 6. US | EPA ID Number | | CENTURE | | | |
| | | | | | | ransporter's I | | |
| | | | | | D. Transp | orter's Phone | | |
| 7. Transporter 2 Company Name | | 8. US | EPA ID Number | | F State T | ransporter's I | D sin | |
| 11 - 11 - 11 - 11 | | 1/1 | | | | orter's Phone | To said | area I had |
| 9. Designated Facility Name and Site | Address | 10. US | S EPA ID Number | | 234 | 1 | 34 . 14 | |
| HICKORY HILL LANDFILL | | | | | G. State F | acility ID | 3000 | nilla III |
| 2621 LOW COUNTRY DRIVE | | | 1 - 19/1/11 | | H. State F | acility Phone | 843-98 | 7-4643 |
| RIDGELAND, SC 29936 | | V-12/24 - 10 1 1 | 14. E. T. 19. | TERM | VIII. | | | |
| | | - S. J. J. C. Z. | 12. Co | ntainers | 13. Total | 14. Unit | 1 | |
| 11. Description of Waste Materials | | | No. | Туре | Quantity | Wt./Vol. | I. Misc | Comments |
| a. HEATING OIL TANK FILLED | WITH SAND | | lu lui | - | 11137 | egi_) (00) | Clare | |
| 770-9-1 | | | | | Section 2 | | W. S. | |
| | file # 102655SC | | | | | | | (B) |
| b. | | | 100 | | | - Vo | 1.000 | |
| 75.07 | | | - | | | | | |
| WM Profile # | | | PER L | HILES! | | 357 | (0.20-) | |
| c. | | | - Sec. | | | 40,000 | 1 | |
| WM Profile # | | | (C) | Alexander of the second | | | | 1.6 |
| d. | | | | | | | | |
| | | | Pen | - | | VIII VIII | | |
| WM Profile # | | | | 173.50 | | int a | | |
| J. Additional Descriptions for Mate | rials Listed Above | | K. Dispos | sal Location | | | | |
| and discount in the same | | | Call | | | | I tavel I | |
| | | | Cell | | - | _ | Level | |
| 15. Special Handling Instructions and 157 5 from 1814 AZA / E | 1: 2/ | HODYEL HZI ELD EMERGEN | ER BERI | RRY ONE NO.: | 4) 1 5) 912 | D28 F | excudra excudra | Elder |
| 16. GENERATOR'S CERTIFICATE: | | | , , , , | 10 | | | | |
| I hereby certify that the above-descr | | | | | | | v, have been f | ully and |
| accurately described, classified and p | ackaged and are in pro | | | ording to ap | plicable regu | lations. | T T | |
| Printed Name | Timbel | Signature "Or | benait of | TA | | | Month | Day Ye |
| 17. Transporter 1 Acknowledgement | t of Receipt of Materials | s | | 1) | - | | 1 0 1 | |
| Printed Name PRAH | Shaw | Signature | AR | 7 | | | Month | Day Ye |
| 18. Transporter 2 Acknowledgemen | t of Receipt of Materials | s | 7 | | | 7.0 | | |
| Printed Name SAMES RALA | uliat | Signature | nua Bo | 00 | | | Month | Day Ye |
| 19. Certificate of Final Treatment/Di | isposal | Tury | | Jene Control | | | | - 1 |
| I certify, on behalf of the above listed applicable laws, regulations, permits | treatment facility, tha | | knowledge, the al | oove-descri | bed waste w | as managed i | n compliance | with all |
| 20. Facility Owner or Operator: Cer | | | rials covered by the | his manifes | t. | | | |
| Printed Name | | Signature | | 0 | 25.1 | | Month | Day Ye |
| lowi Cotield | | 1 | one (| Lee | plu | | 2 | 6/1 |
| White-TREATMENT, STORAGE, DISP | OSAL FACILITY COPY | Blue- GENER | ATOR #2 COPY | | Ye | llow- GENERA | ATOR #1 COPY | |

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY

Appendix C Regulatory Correspondence





Catherine B. Templeton, Director

Promoting and protecting the holish of the public and the environment

May 15, 2014

Commanding Officer Attention: NREAO Mr. William A. Drawdy United State Marine Corps Air Station Post Office Box 55001

Beaufort, SC 29904-5001

RE: 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)



Catherine B. Templeton, Director

Promesing and protecting the health of the public and the environmen

Attachment to: Krieg to Drawdy

Subject: NFA Dated 5/15/2014

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks)

| 212 Balsam | 503 Laurel Bay |
|------------------|----------------|
| 219 Balsam | 508 Laurel Bay |
| 260 Beech Tank 1 | 510 Laurel Bay |
| 260 Beech Tank 2 | 523 Laurel Bay |
| 267 Birch | 525 Laurel Bay |
| 287 Birch | 529 Laurel Bay |
| 302 Ash | 533 Laurel Bay |
| 305 Ash | 537 Laurel Bay |
| 334 Ash | 556 Dahlia |
| 338 Ash Tank 1 | 557 Dahlia |
| 338 Ash Tank 2 | 559 Dahlia |
| 361 Aspen | 562 Dahlia |
| 371 Aspen | 568 Dahlia |
| 372 Aspen Tank 1 | 581 Aster |
| 372 Aspen Tank 2 | 582 Aster |
| 375 Aspen | 584 Aster |
| 385 Aspen | 602 Dahlia |
| 403 Elderberry | 607 Dahlia |
| 407 Elderberry | 614 Dahlia |
| 411 Elderberry | 616 Dahlia |
| 414 Elderberry | 619 Dahlia |
| 415 Elderberry | 625 Dahlia |
| 421 Elderberry | 629 Dahlia |
| 427 Elderberry | 631 Dahlia |
| 428 Elderberry | 634 Dahlia |
| 431 Elderberry | 660 Camellia |
| 455 Elderberry | 661 Camellia |
| 484 Laurel Bay | 666 Camellia |
| 490 Laurel Bay | 669 Camellia |
| 502 Laurel Bay | 672 Camellia |

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks) cont.

| 674 Camellia | 880 Cobia |
|----------------|----------------|
| 677 Camellia | 890 Cobia |
| 679 Camellia | 892 Cobia |
| 686 Camellia | 900 Barracuda |
| 690 Camellia | 906 Barracuda |
| | |
| 698 Abelia | 911 Barracuda |
| 700 Bluebell | 912 Barracuda |
| 704 Bluebell | 917 Barracuda |
| 705 Bluebell | 919 Barracuda |
| 708 Bluebell | 928 Albacore |
| 710 Bluebell | 1024 Foxglove |
| 711 Bluebell | 1028 Foxglove |
| 714 Bluebell | 1029 Foxglove |
| 715 Bluebell | 1038 Iris |
| 726 Bluebell | 1049 Gardenia |
| 728 Bluebell | 1079 Heather |
| 731 Bluebell | 1103 Iris |
| 734 Bluebell | 1122 Iris |
| 759 Althea | 1136 Iris |
| 761 Althea | 1173 Bobwhite |
| 773 Althea | 1200 Cardinal |
| 778 Laurel Bay | 1221 Cardinal |
| 807 Azalea | 1238 Dove |
| 814 Azalea | 1241 Dove |
| 815 Azalea | 1242 Dove |
| 818 Azalea | 1248 Dove |
| 820 Azalea | 1262 Dove |
| 821 Azalea | 1265 Dove |
| 831 Azalea | 1267 Dove |
| 832 Azalea | 1289 Eagle |
| 834 Azalea | 1298 Eagle |
| 835 Azalea | 1300 Eagle |
| 841 Azalea | 1303 Eagle |
| 853 Dolphin | 1304 Eagle |
| 858 Dolphin | 1315 Albatross |
| 869 Cobia | 1316 Albatross |
| 874 Cobia | 1320 Albatross |
| 875 Cobia | 1338 Albatross |
| | |

Laurel Bay Underground Storage Tank Assessment Reports for: (143 addresses/146 tanks) cont.

| 1340 Albatross | |
|----------------|--|
| 1342 Albatross | |
| 1344 Cardinal | |
| 1345 Cardinal | |
| 1349 Cardinal | |
| 1355 Cardinal | |
| 1366 Cardinal | |
| 1374 Dove | |
| 1375 Dove | |
| 1415 Albatross | |