**SUMMARY REPORT**
**392 ASH STREET (FORMERLY 341 ASH STREET)**
**LAUREL BAY MILITARY HOUSING AREA**
**MARINE CORPS AIR STATION BEAUFORT**
**BEAUFORT, SC**

**Revision: 0**
**Prepared for:**

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

**and**


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

**JUNE 2021**

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**Prepared by:**

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

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

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## Tables



## Appendices

## List of Acronyms

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

## 1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 392 Ash Street (Formerly 341 Ash Street). 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 392 Ash Street (Formerly 341 Ash Street). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 341 Ash Street* (MCAS Beaufort, 2011). The UST Assessment Report is provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C.

### 2.1 UST Removal and Soil Sampling

On June 1, 2011, a single 280 gallon heating oil UST was removed from the front landscaped bed area adjacent to the front concrete porch at 392 Ash Street (Formerly 341 Ash Street). The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). The UST was removed, cleaned, and shipped offsite for recycling. There was no visual

evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 6'0" 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 392 Ash Street (Formerly 341 Ash Street) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated July 1, 2015, SCDHEC requested an IGWA for 392 Ash Street (Formerly 341 Ash Street) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

## 2.3 Groundwater Sampling

On November 11, 2015, a temporary monitoring well was installed at 392 Ash Street (Formerly 341 Ash Street), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). In order to provide data that can be used to determine whether COPCs are migrating to underlying groundwater, the monitoring well was placed in the same general location as the former heating oil UST. The former UST location is indicated on Figures 2 and 3 of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring well. Following well installation and development, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary well was abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Initial Groundwater Investigation Report – November and December 2015* (Resolution Consultants, 2016).

### 2.4 Groundwater Analytical Results

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

The groundwater results collected from 392 Ash Street (Formerly 341 Ash Street) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated that the groundwater was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

## 3.0 PROPERTY STATUS

Based on the analytical results for groundwater, SCDHEC made the determination that NFA was required for 392 Ash Street (Formerly 341 Ash Street). This NFA determination was obtained in a letter dated June 8, 2016. SCDHEC's NFA letter is provided in Appendix D.

## 4.0 REFERENCES

Marine Corps Air Station Beaufort, 2011. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 341 Ash Street, Laurel Bay Military Housing Area*, September 2011.

Resolution Consultants, 2016. *Initial Groundwater Investigation Report – November and December 2015 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, April 2016.

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

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

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

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

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

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

# Tables

**Table 1**
**Laboratory Analytical Results - Soil**
**392 Ash Street (Formerly 341 Ash Street)**
**Laurel Bay Military Housing Area**
**Marine Corps Air Station Beaufort**
**Beaufort, South Carolina**

| Constituent | SCDHEC RBSLs [1] | Results Sample Collected 06/01/11 |
|---|---|---|
| **Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)** | | |
| Benzene | 0.003 | **0.00159** |
| Ethylbenzene | 1.15 | ND |
| Naphthalene | 0.036 | **0.357** |
| Toluene | 0.627 | **0.00152** |
| Xylenes, Total | 13.01 | **0.383** |
| **Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)** | | |
| Benzo(a)anthracene | 0.66 | ND |
| Benzo(b)fluoranthene | 0.66 | ND |
| Benzo(k)fluoranthene | 0.66 | ND |
| Chrysene | 0.66 | **0.0680** |
| Dibenz(a,h)anthracene | 0.66 | ND |

**Notes:**

[1] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 and 3.1 (SCDHEC, May 2015 and SCDHEC, February 2016) and the Underground Storage Tank Assessment Guidelines (SCDHEC, February 2006).

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

**Table 2**
**Laboratory Analytical Results - Groundwater**
**392 Ash Street (Formerly 341 Ash Street)**
**Laurel Bay Military Housing Area**
**Marine Corps Air Station Beaufort**
**Beaufort, South Carolina**

| Constituent | SCDHEC RBSLs [1] | Site-Specific Groundwater VISLs (µg/L)[2] | Results Sample Collected 11/11/15 |
|---|---|---|---|
| **Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)** | | | |
| Benzene | 5 | 16.24 | ND |
| Ethylbenzene | 700 | 45.95 | ND |
| Naphthalene | 25 | 29.33 | **0.28** |
| Toluene | 1000 | 105,445 | ND |
| Xylenes, Total | 10,000 | 2,133 | ND |
| **Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)** | | | |
| Benzo(a)anthracene | 10 | NA | ND |
| Benzo(b)fluoranthene | 10 | NA | ND |
| Benzo(k)fluoranthene | 10 | NA | ND |
| Chrysene | 10 | NA | ND |
| Dibenz(a,h)anthracene | 10 | NA | ND |

**Notes:**

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

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - Not Applicable

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

RBSL - Risk-Based Screening Level

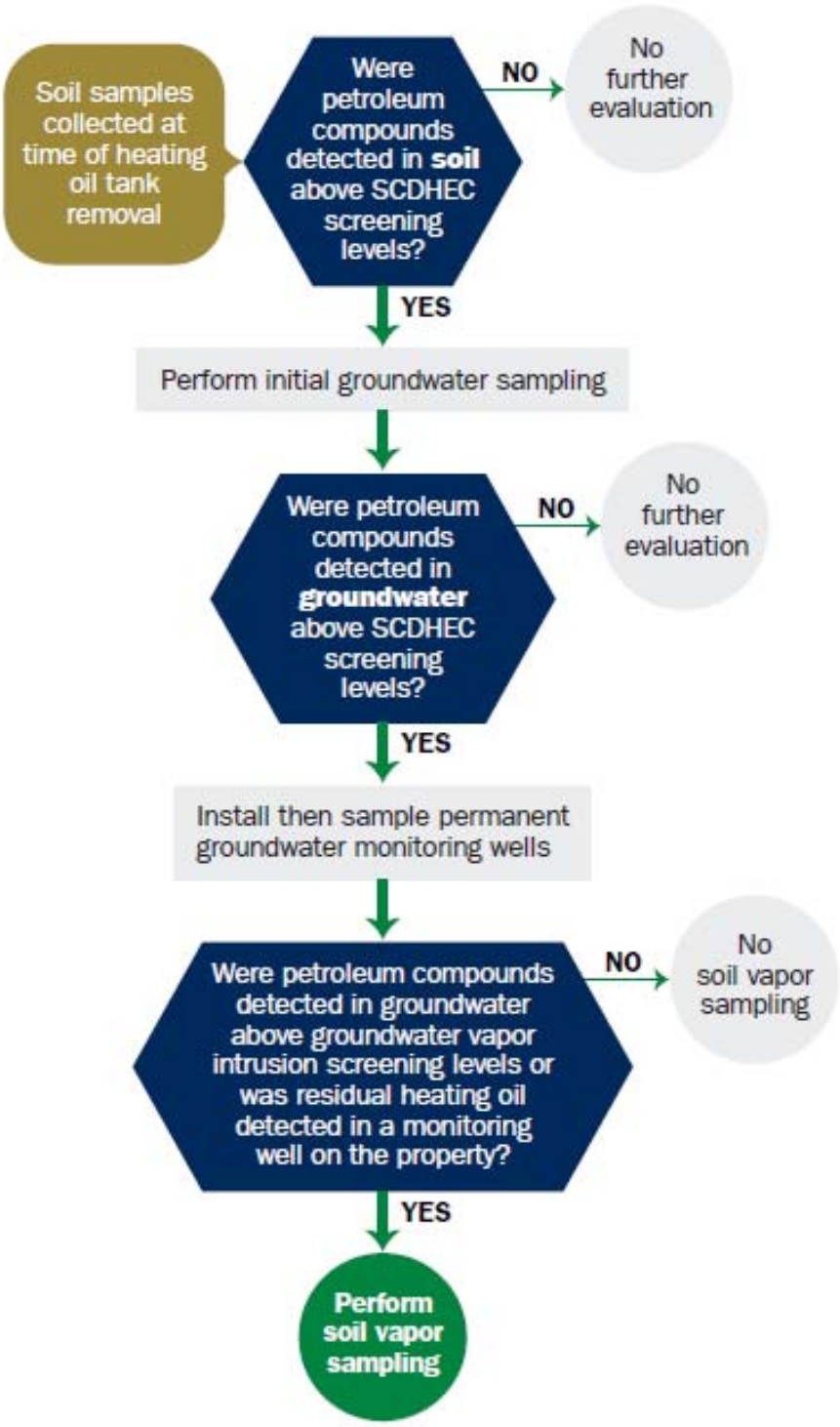
SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

**Appendix A**
**Multi-Media Selection Process for LBMH**

CDM - AECOM
Multimedia Joint Venture




## Appendix A - Multi-Media Selection Process for LBMH

**Appendix B**
**UST Assessment Report**

CDM - AECOM
Multimedia Joint Venture

Reid 9/30/11

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

# Underground Storage Tank (UST) Assessment Report

| Date Received | State Use Only |
|---|---|

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

## I. OWNERSHIP OF UST (S)

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

P.O. Box 55001
Mailing Address

| Beaufort, | South Carolina | 29904-5001 |
|---|---|---|
| City | State | Zip Code |

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

## II. SITE IDENTIFICATION AND LOCATION

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

341 Ash Street, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)

| Beaufort, | Beaufort |
|---|---|
| City | County |

Attachment 2

## III. INSURANCE INFORMATION

### Insurance Statement

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

Is there now, or has there ever been an insurance policy or other financial mechanism that covers this UST release? **YES**____ **NO**_____ (check one)

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

My policy provider is:_____
The policy deductible is: _____
The policy limit is: _____

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

## IV. REQUEST FOR SUPERB FUNDING

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

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

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

_____
Name (Type or print.)

_____
Signature

### To be completed by Notary Public:

Sworn before me this _____ day of_____, 20____

_____
(Name)

Notary Public for the state of_____.
*Please affix State seal if you are commissioned outside South Carolina*

## VI. UST INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| A. | Product...(ex. Gas, Kerosene)..... | 341Ash | | | | |
| B. | Capacity..(ex. 1k, 2k)..... | Heating oil | | | | |
| C. | Age..... | 280 gal | | | | |
| D. | Construction Material..(ex. Steel, FRP)..... | Late 1950s | | | | |
| E. | Month/Year of Last Use..... | Steel | | | | |
| F. | Depth (ft.) To Base of Tank..... | Mid 1980s | | | | |
| G. | Spill Prevention Equipment Y/N..... | 6' | | | | |
| H. | Overfill Prevention Equipment Y/N..... | No | | | | |
| I. | Method of Closure Removed/Filled..... | No | | | | |
| J. | Date Tanks Removed/Filled..... | Removed | | | | |
| K. | Visible Corrosion or Pitting Y/N..... | 6/1/11 | | | | |
| L. | Visible Holes Y/N..... | Yes | | | | |
| | | Yes | | | | |

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 341Ash was removed from the ground, cleaned and recycled. See Attachment "A."

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
Contaminated water was pumped from UST 341Ash and disposed by MCAS.

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

## VII. PIPING INFORMATION

| | | | | |
|---|---|---|---|---|
| 341Ash | | | | |
| Steel & Copper | | | | |
| N/A | | | | |
| N/A | | | | |
| Suction | | | | |
| No | | | | |
| Yes | | | | |
| No | | | | |
| Late 1950s | | | | |

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

B. Distance from UST to Dispenser.....

C. Number of Dispensers.....

D. Type of System Pressure or Suction.....

E. Was Piping Removed from the Ground? Y/N

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

G. Visible Holes Y/N.....

H. Age.....

I. If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.

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

## VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

# IX. SITE CONDITIONS

| | Yes | No | Unk |
|---|---|---|---|
| A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?<br><br>If yes, indicate depth and location on the site map. | | X | |
| B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?<br><br>If yes, indicate location on site map and describe the odor (strong, mild, etc.) | | X | |
| C. Was water present in the UST excavation, soil borings, or trenches?<br><br>If yes, how far below land surface (indicate location and depth)? | | X | |
| D. Did contaminated soils remain stockpiled on site after closure?<br><br>If yes, indicate the stockpile location on the site map.<br><br>Name of DHEC representative authorizing soil removal: | | X | |
| E. Was a petroleum sheen or free product detected on any excavation or boring waters?<br><br>If yes, indicate location and thickness. | | X | |

# X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

| Sample # | Location | Sample Type (Soil/Water) | Soil Type (Sand/Clay) | Depth* | Date/Time of Collection | Collected by | OVA # |
|---|---|---|---|---|---|---|---|
| 341Ash | Excav at fill end | Soil | Sandy | 6' | 6/1/11 1130 hrs | P. Shaw | |
| | | | | | | | |
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| 19 | | | | | | | |
| 20 | | | | | | | |

* = Depth Below the Surrounding Land Surface

## XI. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store the samples. Also include the preservative used for each sample. Please use the space provided below.

Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC Assessment Guidelines. Sample containers were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted from area below tank. The samples were marked, logged, and immediately placed in a sample cooler packed with ice to maintain an approximate temperature of 4 degrees Centigrade. Tools were thoroughly cleaned and decontaminated with the seven step decon process after each use. The samples remained in custody of SBG-EEG, Inc. until they were transferred to Test America Incorporated for analysis as documented in the Chain of Custody Record.

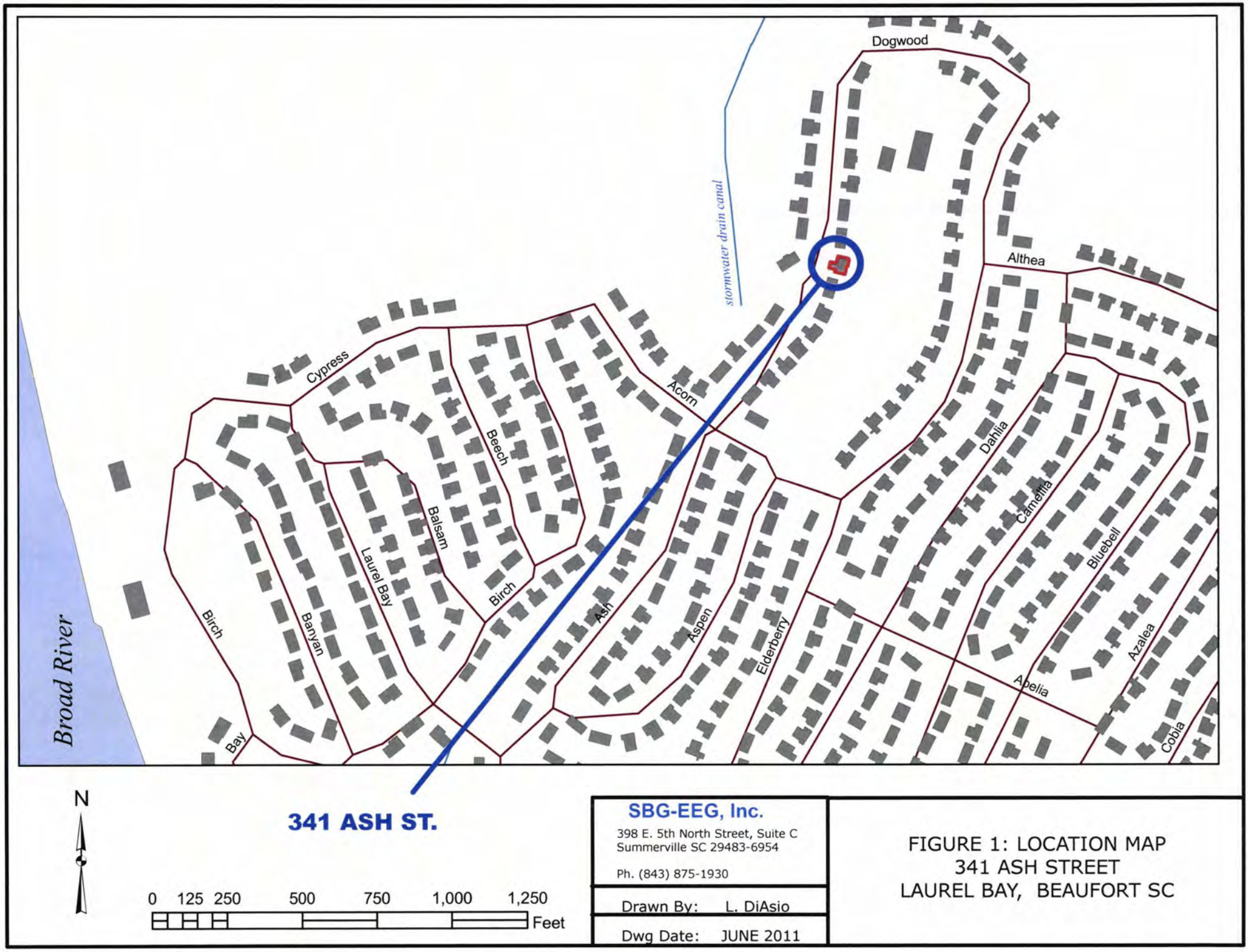
# XII. RECEPTORS

| | | Yes | No |
|---|---|---|---|
| A. | Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *~390' to stormwater canal<br>If yes, indicate type of receptor, distance, and direction on site map. | *X | |
| B. | Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?<br>If yes, indicate type of well, distance, and direction on site map. | | X |
| C. | Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?<br>If yes, indicate type of structure, distance, and direction on site map. | | X |
| D. | Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electricity, cable & fiber optic<br>If yes, indicate the type of utility, distance, and direction on the site map. | *X | |
| E. | Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete?<br>If yes, indicate the area of contaminated soil on the site map. | | X |

## XIII. SITE MAP

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

(Attach Site Map Here)



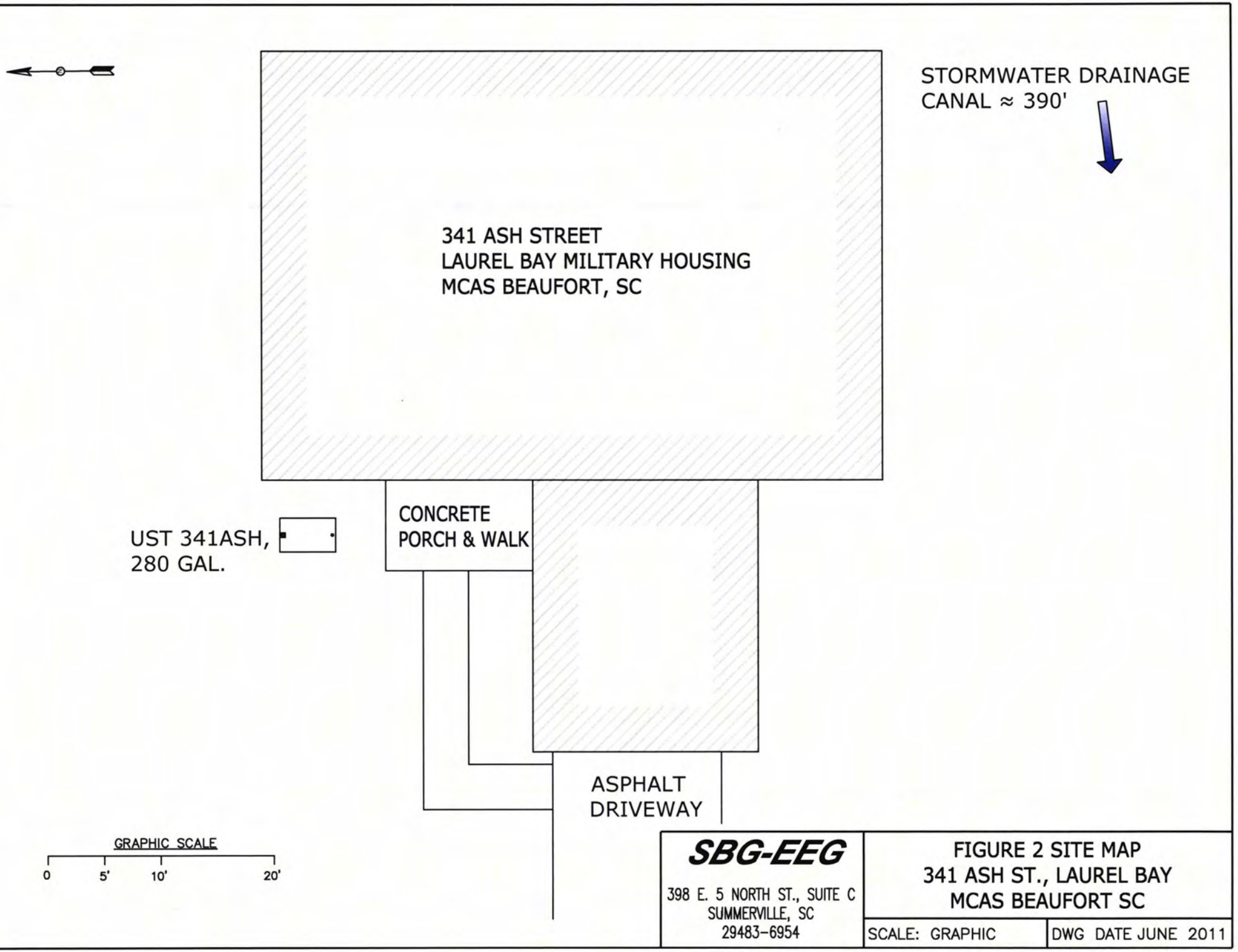


**SBG-EEG, Inc.**
398 E. 5th North Street, Suite C
Summerville SC 29483-6954
Ph. (843) 875-1930


Drawn By: L. DiAsio

Dwg Date: JUNE 2011

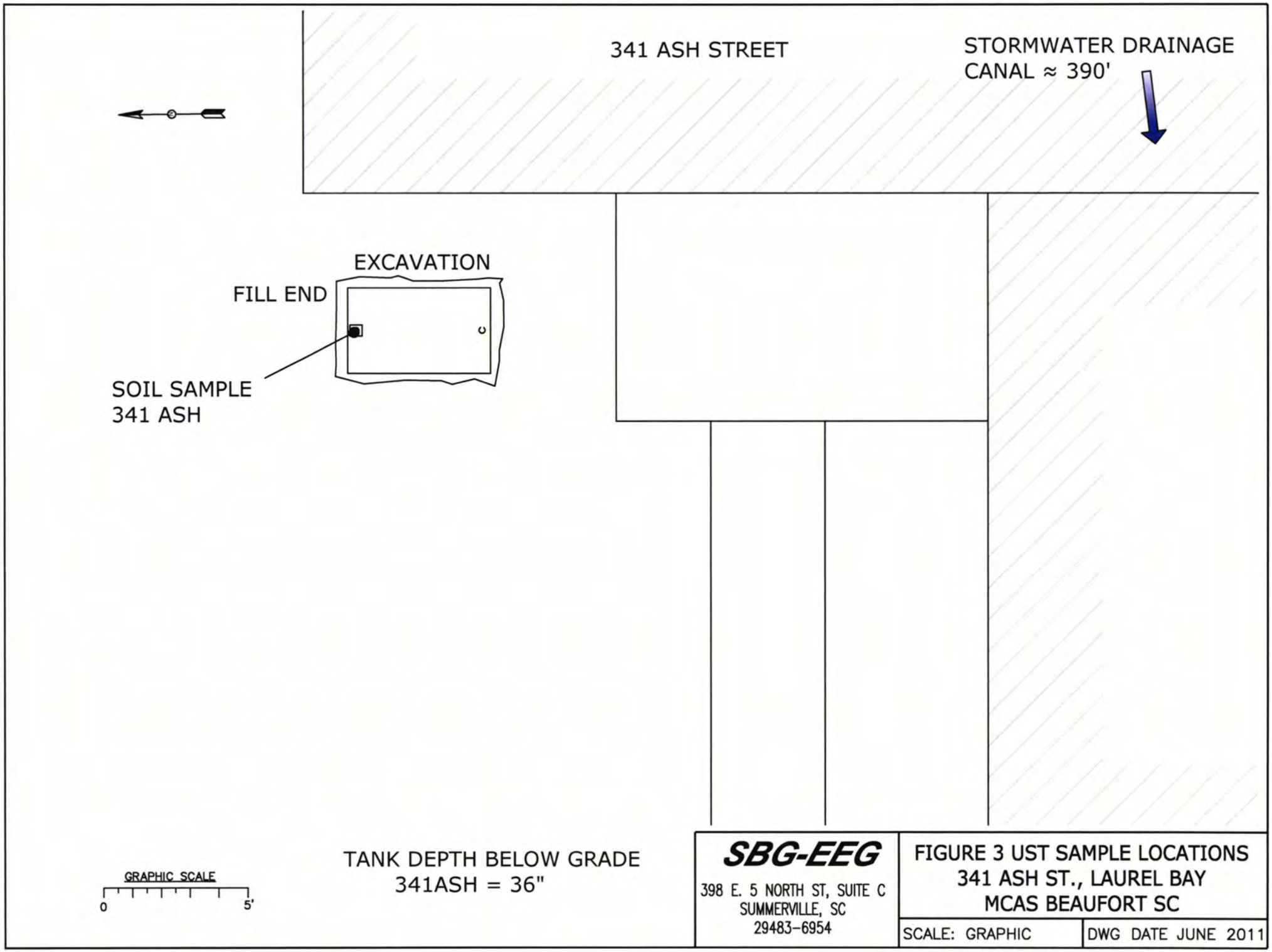
FIGURE 1: LOCATION MAP
341 ASH STREET
LAUREL BAY, BEAUFORT SC




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

FIGURE 2 SITE MAP
341 ASH ST., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE JUNE 2011




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

FIGURE 3 UST SAMPLE LOCATIONS
341 ASH ST., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE JUNE 2011


Picture 1: Location of UST 341Ash.

Picture 2: UST 341Ash excavation in progress.

## 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 | 341Ash | | | | | | |
|---|---|---|---|---|---|---|---|
| **Benzene** | 0.00159 mg/kg | | | | | | |
| **Toluene** | 0.00152 mg/kg | | | | | | |
| **Ethylbenzene** | ND | | | | | | |
| **Xylenes** | 0.383 mg/kg | | | | | | |
| **Naphthalene** | 0.357 mg/kg | | | | | | |
| **Benzo (a) anthracene** | ND | | | | | | |
| **Benzo (b) fluoranthene** | ND | | | | | | |
| **Benzo (k) fluoranthene** | ND | | | | | | |
| **Chrysene** | 0.0680 mg/kg | | | | | | |
| **Dibenz (a, h) anthracene** | ND | | | | | | |
| **TPH (EPA 3550)** | | | | | | | |

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

## SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

## XV. ANALYTICAL RESULTS

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Road
Nashville, TN 37204
Tel: 800-765-0980

TestAmerica Job ID: NUF0682
Client Project/Site: [none]
Client Project Description: Laurel Bay Housing Project

For:
EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456

Attn: Tom McElwee

*Authorized for release by:*
*06/20/2011 05:42:31 PM*

Ken A. Hayes
Senior Project Manager
ken.hayes@testamericainc.com



*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.*

# Table of Contents

# Sample Summary

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUF0682

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| NUF0682-01 | 335 Ash-1 | Soil | 05/31/11 11:45 | 06/04/11 08:45 |
| NUF0682-02 | 335 Ash-2 | Soil | 05/31/11 15:30 | 06/04/11 08:45 |
| NUF0682-03 | 341 Ash | Soil | 06/01/11 11:30 | 06/04/11 08:45 |
| NUF0682-04 | 347 Ash-1 | Soil | 06/01/11 16:00 | 06/04/11 08:45 |
| NUF0682-05 | 347 Ash-2 | Soil | 06/02/11 11:45 | 06/04/11 08:45 |

## Job ID: NUF0682

**Laboratory: TestAmerica Nashville**

**Narrative**

N1 - Due to undetermined reasons, the septum on the Methanol preserved VOA vial for NUF0682-02 was displaced from the cap and into the vial and all of the methanol and sample was lost. A new Methanol vial was prepped from the associated soil jar for the purpose of analyzing for Naphthalene at a needed 50X dilution.

## Qualifiers

### GCMS Volatiles

| Qualifier | Qualifier Description |
|---|---|
| J | Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated. |
| N1 | See case narrative. |
| Z10 | Surrogate outside laboratory historical limits but within method guidelines. No effect on data. |
| ZX | Due to sample matrix effects, the surrogate recovery was outside the acceptance limits. |

### GCMS Semivolatiles

| Qualifier | Qualifier Description |
|---|---|
| J | Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated. |
| MHA | Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS). |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis. |
| EPA | United States Environmental Protection Agency |
| ND | Not Detected above the reporting level. |
| MDL | Method Detection Limit |
| RL | Reporting Limit |
| RE, RE1 (etc.) | Indicates a Re-extraction or Reanalysis of the sample. |
| %R | Percent Recovery |
| RPD | Relative Percent Difference, a measure of the relative difference between two points. |

**Client Sample ID: 335 Ash-1**
**Date Collected: 05/31/11 11:45**
**Date Received: 06/04/11 08:45**

**Lab Sample ID: NUF0682-01**
**Matrix: Soil**
**Percent Solids: 81.8**

### Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.00174 | 0.000959 | mg/kg dry | ☼ | 05/31/11 11:45 | 06/13/11 16:49 | 1.00 |
| Toluene | 0.000802 | J | 0.00174 | 0.000776 | mg/kg dry | ☼ | 05/31/11 11:45 | 06/13/11 16:49 | 1.00 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *85* | | *67 - 138* | *05/31/11 11:45* | *06/13/11 16:49* | *1.00* |
| *Dibromofluoromethane* | *92* | | *75 - 125* | *05/31/11 11:45* | *06/13/11 16:49* | *1.00* |
| *Toluene-d8* | *206* | *ZX* | *76 - 129* | *05/31/11 11:45* | *06/13/11 16:49* | *1.00* |
| *4-Bromofluorobenzene* | *287* | *ZX* | *67 - 147* | *05/31/11 11:45* | *06/13/11 16:49* | *1.00* |

### Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 0.440 | | 0.175 | 0.0855 | mg/kg dry | ☼ | 05/31/11 11:45 | 06/14/11 21:59 | 50.0 |
| Naphthalene | 16.4 | | 0.436 | 0.148 | mg/kg dry | ☼ | 05/31/11 11:45 | 06/14/11 21:59 | 50.0 |
| Xylenes, total | 0.348 | J | 0.436 | 0.166 | mg/kg dry | ☼ | 05/31/11 11:45 | 06/14/11 21:59 | 50.0 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *80* | | *67 - 138* | *05/31/11 11:45* | *06/14/11 21:59* | *50.0* |
| *Dibromofluoromethane* | *72* | *ZX* | *75 - 125* | *05/31/11 11:45* | *06/14/11 21:59* | *50.0* |
| *Toluene-d8* | *112* | | *76 - 129* | *05/31/11 11:45* | *06/14/11 21:59* | *50.0* |
| *4-Bromofluorobenzene* | *100* | | *67 - 147* | *05/31/11 11:45* | *06/14/11 21:59* | *50.0* |

### Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.424 | | 0.0819 | 0.0171 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Acenaphthylene | 0.233 | | 0.0819 | 0.0244 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Anthracene | 0.336 | | 0.0819 | 0.0110 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Benzo (a) anthracene | 0.387 | | 0.0819 | 0.0134 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Benzo (a) pyrene | 0.209 | | 0.0819 | 0.00978 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Benzo (b) fluoranthene | 0.267 | | 0.0819 | 0.0464 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Benzo (g,h,i) perylene | 0.0758 | J | 0.0819 | 0.0110 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Benzo (k) fluoranthene | 0.189 | | 0.0819 | 0.0452 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Chrysene | 0.429 | | 0.0819 | 0.0379 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Dibenz (a,h) anthracene | ND | | 0.0819 | 0.0183 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Fluoranthene | 0.695 | | 0.0819 | 0.0134 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Fluorene | 1.51 | | 0.0819 | 0.0244 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Indeno (1,2,3-cd) pyrene | 0.0786 | J | 0.0819 | 0.0379 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Naphthalene | 2.24 | | 0.0819 | 0.0171 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Phenanthrene | 2.88 | | 0.0819 | 0.0122 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |
| Pyrene | 0.790 | | 0.0819 | 0.0281 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:24 | 1.00 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Terphenyl-d14* | *91* | | *18 - 120* | *06/04/11 13:42* | *06/07/11 17:24* | *1.00* |
| *2-Fluorobiphenyl* | *66* | | *14 - 120* | *06/04/11 13:42* | *06/07/11 17:24* | *1.00* |
| *Nitrobenzene-d5* | *78* | | *17 - 120* | *06/04/11 13:42* | *06/07/11 17:24* | *1.00* |

### Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D - RE1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | 6.89 | | 0.409 | 0.0733 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 18:43 | 5.00 |
| 2-Methylnaphthalene | 11.1 | | 0.409 | 0.128 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 18:43 | 5.00 |

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUF0682

**Client Sample ID: 335 Ash-1**
**Date Collected: 05/31/11 11:45**
**Date Received: 06/04/11 08:45**

**Lab Sample ID: NUF0682-01**
**Matrix: Soil**
**Percent Solids: 81.8**

**Method: SW-846 - General Chemistry Parameters**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| % Dry Solids | 81.8 | | 0.500 | 0.500 | % | | 06/08/11 12:31 | 06/09/11 10:37 | 1.00 |

**Client Sample ID: 335 Ash-2**
**Date Collected: 05/31/11 15:30**
**Date Received: 06/04/11 08:45**

**Lab Sample ID: NUF0682-02**
**Matrix: Soil**
**Percent Solids: 81.3**

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.00184 | 0.00101 | mg/kg dry | ☼ | 05/31/11 15:30 | 06/14/11 22:31 | 1.00 |
| Ethylbenzene | 0.0512 | | 0.00184 | 0.000904 | mg/kg dry | ☼ | 05/31/11 15:30 | 06/14/11 22:31 | 1.00 |
| Toluene | 0.00138 | J | 0.00184 | 0.000821 | mg/kg dry | ☼ | 05/31/11 15:30 | 06/14/11 22:31 | 1.00 |
| Xylenes, total | 0.104 | | 0.00461 | 0.00175 | mg/kg dry | ☼ | 05/31/11 15:30 | 06/14/11 22:31 | 1.00 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *90* | | *67 - 138* | *05/31/11 15:30* | *06/14/11 22:31* | *1.00* |
| *Dibromofluoromethane* | *80* | | *75 - 125* | *05/31/11 15:30* | *06/14/11 22:31* | *1.00* |
| *Toluene-d8* | *128* | | *76 - 129* | *05/31/11 15:30* | *06/14/11 22:31* | *1.00* |
| *4-Bromofluorobenzene* | *1390* | *ZX* | *67 - 147* | *05/31/11 15:30* | *06/14/11 22:31* | *1.00* |

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE2

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 1.63 | N1 | 0.296 | 0.101 | mg/kg dry | ☼ | 06/05/11 10:09 | 06/14/11 23:02 | 50.0 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *85* | | *67 - 138* | *06/05/11 10:09* | *06/14/11 23:02* | *50.0* |
| *Dibromofluoromethane* | *74* | *Z10* | *75 - 125* | *06/05/11 10:09* | *06/14/11 23:02* | *50.0* |
| *Toluene-d8* | *107* | | *76 - 129* | *06/05/11 10:09* | *06/14/11 23:02* | *50.0* |
| *4-Bromofluorobenzene* | *124* | | *67 - 147* | *06/05/11 10:09* | *06/14/11 23:02* | *50.0* |

## Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.0824 | 0.0172 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Acenaphthylene | ND | | 0.0824 | 0.0246 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Anthracene | 0.255 | | 0.0824 | 0.0111 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Benzo (a) anthracene | 0.833 | | 0.0824 | 0.0135 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Benzo (a) pyrene | 0.335 | | 0.0824 | 0.00984 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Benzo (b) fluoranthene | 0.415 | | 0.0824 | 0.0468 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Benzo (g,h,i) perylene | 0.0738 | J | 0.0824 | 0.0111 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Benzo (k) fluoranthene | 0.337 | | 0.0824 | 0.0455 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Chrysene | 0.777 | | 0.0824 | 0.0381 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Dibenz (a,h) anthracene | 0.0689 | J | 0.0824 | 0.0185 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Fluoranthene | 2.02 | | 0.0824 | 0.0135 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Fluorene | ND | | 0.0824 | 0.0246 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Indeno (1,2,3-cd) pyrene | 0.109 | | 0.0824 | 0.0381 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Naphthalene | 0.260 | | 0.0824 | 0.0172 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Phenanthrene | 1.13 | | 0.0824 | 0.0123 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| Pyrene | 1.54 | | 0.0824 | 0.0283 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| 1-Methylnaphthalene | 0.496 | | 0.0824 | 0.0148 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |
| 2-Methylnaphthalene | 0.765 | | 0.0824 | 0.0258 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 17:46 | 1.00 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Terphenyl-d14* | *79* | | *18 - 120* | *06/04/11 13:42* | *06/07/11 17:46* | *1.00* |
| *2-Fluorobiphenyl* | *66* | | *14 - 120* | *06/04/11 13:42* | *06/07/11 17:46* | *1.00* |
| *Nitrobenzene-d5* | *64* | | *17 - 120* | *06/04/11 13:42* | *06/07/11 17:46* | *1.00* |

## Method: SW-846 - General Chemistry Parameters

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| % Dry Solids | 81.3 | | 0.500 | 0.500 | % | | 06/08/11 12:31 | 06/09/11 10:37 | 1.00 |

**Client Sample ID: 341 Ash**
**Date Collected: 06/01/11 11:30**
**Date Received: 06/04/11 08:45**

**Lab Sample ID: NUF0682-03**
**Matrix: Soil**
**Percent Solids: 81.9**

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.00159 | J | 0.00214 | 0.00118 | mg/kg dry | ☼ | 06/01/11 11:30 | 06/13/11 17:52 | 1.00 |
| Ethylbenzene | ND | | 0.00214 | 0.00105 | mg/kg dry | ☼ | 06/01/11 11:30 | 06/13/11 17:52 | 1.00 |
| Toluene | 0.00152 | J | 0.00214 | 0.000951 | mg/kg dry | ☼ | 06/01/11 11:30 | 06/13/11 17:52 | 1.00 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *92* | | *67 - 138* | *06/01/11 11:30* | *06/13/11 17:52* | *1.00* |
| *Dibromofluoromethane* | *85* | | *75 - 125* | *06/01/11 11:30* | *06/13/11 17:52* | *1.00* |
| *Toluene-d8* | *117* | | *76 - 129* | *06/01/11 11:30* | *06/13/11 17:52* | *1.00* |
| *4-Bromofluorobenzene* | *103* | | *67 - 147* | *06/01/11 11:30* | *06/13/11 17:52* | *1.00* |

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.357 | | 0.276 | 0.0938 | mg/kg dry | ☼ | 06/01/11 11:30 | 06/15/11 00:36 | 50.0 |
| Xylenes, total | 0.383 | | 0.276 | 0.105 | mg/kg dry | ☼ | 06/01/11 11:30 | 06/15/11 00:36 | 50.0 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *75* | | *67 - 138* | *06/01/11 11:30* | *06/15/11 00:36* | *50.0* |
| *Dibromofluoromethane* | *68* | *ZX* | *75 - 125* | *06/01/11 11:30* | *06/15/11 00:36* | *50.0* |
| *Toluene-d8* | *108* | | *76 - 129* | *06/01/11 11:30* | *06/15/11 00:36* | *50.0* |
| *4-Bromofluorobenzene* | *104* | | *67 - 147* | *06/01/11 11:30* | *06/15/11 00:36* | *50.0* |

## Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.0818 | 0.0171 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Acenaphthylene | ND | | 0.0818 | 0.0244 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Anthracene | ND | | 0.0818 | 0.0110 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Benzo (a) anthracene | ND | | 0.0818 | 0.0134 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Benzo (a) pyrene | ND | | 0.0818 | 0.00977 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Benzo (b) fluoranthene | ND | | 0.0818 | 0.0464 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Benzo (g,h,i) perylene | ND | | 0.0818 | 0.0110 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Benzo (k) fluoranthene | ND | | 0.0818 | 0.0452 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Chrysene | 0.0680 | J | 0.0818 | 0.0378 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Dibenz (a,h) anthracene | ND | | 0.0818 | 0.0183 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Fluoranthene | ND | | 0.0818 | 0.0134 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Fluorene | 0.0655 | J | 0.0818 | 0.0244 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Indeno (1,2,3-cd) pyrene | ND | | 0.0818 | 0.0378 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Naphthalene | 0.0635 | J | 0.0818 | 0.0171 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Phenanthrene | 0.0899 | | 0.0818 | 0.0122 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| Pyrene | ND | | 0.0818 | 0.0281 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| 1-Methylnaphthalene | 0.298 | | 0.0818 | 0.0146 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |
| 2-Methylnaphthalene | 0.384 | | 0.0818 | 0.0256 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/08/11 19:05 | 1.00 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Terphenyl-d14* | *62* | | *18 - 120* | *06/04/11 13:42* | *06/08/11 19:05* | *1.00* |
| *2-Fluorobiphenyl* | *46* | | *14 - 120* | *06/04/11 13:42* | *06/08/11 19:05* | *1.00* |
| *Nitrobenzene-d5* | *47* | | *17 - 120* | *06/04/11 13:42* | *06/08/11 19:05* | *1.00* |

## Method: SW-846 - General Chemistry Parameters

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| % Dry Solids | 81.9 | | 0.500 | 0.500 | % | | 06/08/11 12:31 | 06/09/11 10:37 | 1.00 |

## Client Sample ID: 347 Ash-1

**Date Collected: 06/01/11 16:00**
**Date Received: 06/04/11 08:45**

## Lab Sample ID: NUF0682-04

**Matrix: Soil**
**Percent Solids: 86.3**

### Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.00211 | 0.00116 | mg/kg dry | ☼ | 06/01/11 16:00 | 06/14/11 23:33 | 1.00 |
| Ethylbenzene | ND | | 0.00211 | 0.00103 | mg/kg dry | ☼ | 06/01/11 16:00 | 06/14/11 23:33 | 1.00 |
| Naphthalene | 0.00374 | J | 0.00527 | 0.00179 | mg/kg dry | ☼ | 06/01/11 16:00 | 06/14/11 23:33 | 1.00 |
| Toluene | ND | | 0.00211 | 0.000938 | mg/kg dry | ☼ | 06/01/11 16:00 | 06/14/11 23:33 | 1.00 |
| Xylenes, total | ND | | 0.00527 | 0.00200 | mg/kg dry | ☼ | 06/01/11 16:00 | 06/14/11 23:33 | 1.00 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *87* | | *67 - 138* | *06/01/11 16:00* | *06/14/11 23:33* | *1.00* |
| *Dibromofluoromethane* | *79* | | *75 - 125* | *06/01/11 16:00* | *06/14/11 23:33* | *1.00* |
| *Toluene-d8* | *110* | | *76 - 129* | *06/01/11 16:00* | *06/14/11 23:33* | *1.00* |
| *4-Bromofluorobenzene* | *104* | | *67 - 147* | *06/01/11 16:00* | *06/14/11 23:33* | *1.00* |

### Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.0776 | 0.0162 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Acenaphthylene | ND | | 0.0776 | 0.0232 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Anthracene | ND | | 0.0776 | 0.0104 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Benzo (a) anthracene | ND | | 0.0776 | 0.0127 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Benzo (a) pyrene | ND | | 0.0776 | 0.00927 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Benzo (b) fluoranthene | ND | | 0.0776 | 0.0440 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Benzo (g,h,i) perylene | ND | | 0.0776 | 0.0104 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Benzo (k) fluoranthene | ND | | 0.0776 | 0.0429 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Chrysene | ND | | 0.0776 | 0.0359 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Dibenz (a,h) anthracene | ND | | 0.0776 | 0.0174 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Fluoranthene | ND | | 0.0776 | 0.0127 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Fluorene | ND | | 0.0776 | 0.0232 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Indeno (1,2,3-cd) pyrene | ND | | 0.0776 | 0.0359 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Naphthalene | ND | | 0.0776 | 0.0162 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Phenanthrene | ND | | 0.0776 | 0.0116 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| Pyrene | ND | | 0.0776 | 0.0267 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| 1-Methylnaphthalene | ND | | 0.0776 | 0.0139 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |
| 2-Methylnaphthalene | ND | | 0.0776 | 0.0243 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:30 | 1.00 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Terphenyl-d14* | *88* | | *18 - 120* | *06/04/11 13:42* | *06/07/11 18:30* | *1.00* |
| *2-Fluorobiphenyl* | *65* | | *14 - 120* | *06/04/11 13:42* | *06/07/11 18:30* | *1.00* |
| *Nitrobenzene-d5* | *62* | | *17 - 120* | *06/04/11 13:42* | *06/07/11 18:30* | *1.00* |

### Method: SW-846 - General Chemistry Parameters

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| % Dry Solids | 86.3 | | 0.500 | 0.500 | % | | 06/08/11 12:31 | 06/09/11 10:37 | 1.00 |

**Client Sample ID: 347 Ash-2**
**Date Collected: 06/02/11 11:45**
**Date Received: 06/04/11 08:45**

**Lab Sample ID: NUF0682-05**
**Matrix: Soil**
**Percent Solids: 78**

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.00198 | J | 0.00219 | 0.00120 | mg/kg dry | ☼ | 06/02/11 11:45 | 06/13/11 18:54 | 1.00 |
| Toluene | 0.00131 | J | 0.00219 | 0.000973 | mg/kg dry | ☼ | 06/02/11 11:45 | 06/13/11 18:54 | 1.00 |
| Xylenes, total | ND | | 0.00547 | 0.00208 | mg/kg dry | ☼ | 06/02/11 11:45 | 06/13/11 18:54 | 1.00 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *92* | | *67 - 138* | *06/02/11 11:45* | *06/13/11 18:54* | *1.00* |
| *Dibromofluoromethane* | *87* | | *75 - 125* | *06/02/11 11:45* | *06/13/11 18:54* | *1.00* |
| *Toluene-d8* | *877* | *ZX* | *76 - 129* | *06/02/11 11:45* | *06/13/11 18:54* | *1.00* |
| *4-Bromofluorobenzene* | *345* | *ZX* | *67 - 147* | *06/02/11 11:45* | *06/13/11 18:54* | *1.00* |

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 1.05 | | 0.0993 | 0.0487 | mg/kg dry | ☼ | 06/02/11 11:45 | 06/15/11 01:08 | 50.0 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *85* | | *67 - 138* | *06/02/11 11:45* | *06/15/11 01:08* | *50.0* |
| *Dibromofluoromethane* | *78* | | *75 - 125* | *06/02/11 11:45* | *06/15/11 01:08* | *50.0* |
| *Toluene-d8* | *115* | | *76 - 129* | *06/02/11 11:45* | *06/15/11 01:08* | *50.0* |
| *4-Bromofluorobenzene* | *113* | | *67 - 147* | *06/02/11 11:45* | *06/15/11 01:08* | *50.0* |

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B - RE3

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 8.03 | | 2.48 | 0.844 | mg/kg dry | ☼ | 06/02/11 11:45 | 06/15/11 22:30 | 500 |

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *107* | | *67 - 138* | *06/02/11 11:45* | *06/15/11 22:30* | *500* |
| *Dibromofluoromethane* | *99* | | *75 - 125* | *06/02/11 11:45* | *06/15/11 22:30* | *500* |
| *Toluene-d8* | *100* | | *76 - 129* | *06/02/11 11:45* | *06/15/11 22:30* | *500* |
| *4-Bromofluorobenzene* | *104* | | *67 - 147* | *06/02/11 11:45* | *06/15/11 22:30* | *500* |

## Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.0859 | 0.0179 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Acenaphthylene | ND | | 0.0859 | 0.0256 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Anthracene | 0.0820 | J | 0.0859 | 0.0115 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Benzo (a) anthracene | ND | | 0.0859 | 0.0141 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Benzo (a) pyrene | ND | | 0.0859 | 0.0103 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Benzo (b) fluoranthene | ND | | 0.0859 | 0.0487 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Benzo (g,h,i) perylene | ND | | 0.0859 | 0.0115 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Benzo (k) fluoranthene | ND | | 0.0859 | 0.0474 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Chrysene | ND | | 0.0859 | 0.0397 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Dibenz (a,h) anthracene | ND | | 0.0859 | 0.0192 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Fluoranthene | ND | | 0.0859 | 0.0141 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Fluorene | 0.197 | | 0.0859 | 0.0256 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Indeno (1,2,3-cd) pyrene | ND | | 0.0859 | 0.0397 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Naphthalene | 0.157 | | 0.0859 | 0.0179 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Phenanthrene | 0.452 | | 0.0859 | 0.0128 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| Pyrene | 0.0722 | J | 0.0859 | 0.0295 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| 1-Methylnaphthalene | 0.527 | | 0.0859 | 0.0154 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |
| 2-Methylnaphthalene | 0.777 | | 0.0859 | 0.0269 | mg/kg dry | ☼ | 06/04/11 13:42 | 06/07/11 18:52 | 1.00 |

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUF0682

**Client Sample ID: 347 Ash-2**
**Date Collected: 06/02/11 11:45**
**Date Received: 06/04/11 08:45**

**Lab Sample ID: NUF0682-05**
**Matrix: Soil**
**Percent Solids: 78**

| *Surrogate* | *% Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Terphenyl-d14* | *73* | | *18 - 120* | *06/04/11 13:42* | *06/07/11 18:52* | *1.00* |
| *2-Fluorobiphenyl* | *61* | | *14 - 120* | *06/04/11 13:42* | *06/07/11 18:52* | *1.00* |
| *Nitrobenzene-d5* | *58* | | *17 - 120* | *06/04/11 13:42* | *06/07/11 18:52* | *1.00* |

**Method: SW-846 - General Chemistry Parameters**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| % Dry Solids | 78.0 | | 0.500 | 0.500 | % | | 06/08/11 12:31 | 06/09/11 10:37 | 1.00 |

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B

**Lab Sample ID: 11F2864-BLK1**
**Matrix: Soil**
**Analysis Batch: U010494**

**Client Sample ID: Method Blank**
**Prep Type: Total**
**Prep Batch: 11F2864_P**

| Analyte | Blank Result | Blank Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.00200 | 0.00110 | mg/kg wet | | 06/13/11 12:01 | 06/13/11 14:44 | 1.00 |
| Ethylbenzene | ND | | 0.00200 | 0.000980 | mg/kg wet | | 06/13/11 12:01 | 06/13/11 14:44 | 1.00 |
| Naphthalene | ND | | 0.00500 | 0.00170 | mg/kg wet | | 06/13/11 12:01 | 06/13/11 14:44 | 1.00 |
| Toluene | ND | | 0.00200 | 0.000890 | mg/kg wet | | 06/13/11 12:01 | 06/13/11 14:44 | 1.00 |
| Xylenes, total | ND | | 0.00500 | 0.00190 | mg/kg wet | | 06/13/11 12:01 | 06/13/11 14:44 | 1.00 |

| *Surrogate* | *Blank % Recovery* | *Blank Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *90* | | *67 - 138* | *06/13/11 12:01* | *06/13/11 14:44* | *1.00* |
| *Dibromofluoromethane* | *91* | | *75 - 125* | *06/13/11 12:01* | *06/13/11 14:44* | *1.00* |
| *Toluene-d8* | *95* | | *76 - 129* | *06/13/11 12:01* | *06/13/11 14:44* | *1.00* |
| *4-Bromofluorobenzene* | *103* | | *67 - 147* | *06/13/11 12:01* | *06/13/11 14:44* | *1.00* |

**Lab Sample ID: 11F2864-BS1**
**Matrix: Soil**
**Analysis Batch: U010494**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total**
**Prep Batch: 11F2864_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 48.8 | | ug/kg | | 98 | 78 - 126 |
| Ethylbenzene | 50.0 | 56.6 | | ug/kg | | 113 | 79 - 130 |
| Naphthalene | 50.0 | 64.5 | | ug/kg | | 129 | 72 - 150 |
| Toluene | 50.0 | 54.7 | | ug/kg | | 109 | 76 - 126 |
| Xylenes, total | 150 | 168 | | ug/kg | | 112 | 80 - 130 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *82* | | *67 - 138* |
| *Dibromofluoromethane* | *88* | | *75 - 125* |
| *Toluene-d8* | *97* | | *76 - 129* |
| *4-Bromofluorobenzene* | *102* | | *67 - 147* |

**Lab Sample ID: 11F2864-BSD1**
**Matrix: Soil**
**Analysis Batch: U010494**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total**
**Prep Batch: 11F2864_P**

| Analyte | Spike Added | LCS Dup Result | LCS Dup Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 54.0 | | ug/kg | | 108 | 78 - 126 | 10 | 50 |
| Ethylbenzene | 50.0 | 55.2 | | ug/kg | | 110 | 79 - 130 | 3 | 50 |
| Naphthalene | 50.0 | 69.2 | | ug/kg | | 138 | 72 - 150 | 7 | 50 |
| Toluene | 50.0 | 55.3 | | ug/kg | | 111 | 76 - 126 | 1 | 50 |
| Xylenes, total | 150 | 164 | | ug/kg | | 110 | 80 - 130 | 2 | 50 |

| *Surrogate* | *LCS Dup % Recovery* | *LCS Dup Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *93* | | *67 - 138* |
| *Dibromofluoromethane* | *99* | | *75 - 125* |
| *Toluene-d8* | *97* | | *76 - 129* |
| *4-Bromofluorobenzene* | *99* | | *67 - 147* |

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

**Lab Sample ID: 11F2864-MS1**
**Matrix: Soil**
**Analysis Batch: U010494**

**Client Sample ID: Matrix Spike**
**Prep Type: Total**
**Prep Batch: 11F2864_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Result | Matrix Spike Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0474 | 0.0549 | | mg/kg dry | ☼ | 116 | 42 - 141 |
| Ethylbenzene | ND | | 0.0474 | 0.0608 | | mg/kg dry | ☼ | 128 | 21 - 165 |
| Naphthalene | ND | | 0.0474 | 0.0670 | | mg/kg dry | ☼ | 142 | 10 - 160 |
| Toluene | ND | | 0.0474 | 0.0582 | | mg/kg dry | ☼ | 123 | 45 - 145 |
| Xylenes, total | ND | | 0.142 | 0.181 | | mg/kg dry | ☼ | 128 | 31 - 159 |

| *Surrogate* | *Matrix Spike % Recovery* | *Matrix Spike Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *95* | | *67 - 138* |
| *Dibromofluoromethane* | *93* | | *75 - 125* |
| *Toluene-d8* | *96* | | *76 - 129* |
| *4-Bromofluorobenzene* | *101* | | *67 - 147* |

**Lab Sample ID: 11F2864-MSD1**
**Matrix: Soil**
**Analysis Batch: U010494**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total**
**Prep Batch: 11F2864_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Dup Result | Matrix Spike Dup Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0476 | 0.0645 | | mg/kg dry | ☼ | 135 | 42 - 141 | 16 | 50 |
| Ethylbenzene | ND | | 0.0476 | 0.0605 | | mg/kg dry | ☼ | 127 | 21 - 165 | 0.5 | 50 |
| Naphthalene | ND | | 0.0476 | 0.0668 | | mg/kg dry | ☼ | 140 | 10 - 160 | 0.3 | 50 |
| Toluene | ND | | 0.0476 | 0.0579 | | mg/kg dry | ☼ | 121 | 45 - 145 | 0.6 | 50 |
| Xylenes, total | ND | | 0.143 | 0.180 | | mg/kg dry | ☼ | 126 | 31 - 159 | 0.8 | 50 |

| *Surrogate* | *Matrix Spike Dup % Recovery* | *Matrix Spike Dup Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *106* | | *67 - 138* |
| *Dibromofluoromethane* | *109* | | *75 - 125* |
| *Toluene-d8* | *98* | | *76 - 129* |
| *4-Bromofluorobenzene* | *100* | | *67 - 147* |

**Lab Sample ID: 11F3327-BLK1**
**Matrix: Soil**
**Analysis Batch: U010499**

**Client Sample ID: Method Blank**
**Prep Type: Total**
**Prep Batch: 11F3327_P**

| Analyte | Blank Result | Blank Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.00200 | 0.00110 | mg/kg wet | | 06/13/11 13:37 | 06/14/11 16:14 | 1.00 |
| Ethylbenzene | ND | | 0.00200 | 0.000980 | mg/kg wet | | 06/13/11 13:37 | 06/14/11 16:14 | 1.00 |
| Naphthalene | ND | | 0.00500 | 0.00170 | mg/kg wet | | 06/13/11 13:37 | 06/14/11 16:14 | 1.00 |
| Toluene | ND | | 0.00200 | 0.000890 | mg/kg wet | | 06/13/11 13:37 | 06/14/11 16:14 | 1.00 |
| Xylenes, total | ND | | 0.00500 | 0.00190 | mg/kg wet | | 06/13/11 13:37 | 06/14/11 16:14 | 1.00 |

| *Surrogate* | *Blank % Recovery* | *Blank Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *96* | | *67 - 138* | *06/13/11 13:37* | *06/14/11 16:14* | *1.00* |
| *Dibromofluoromethane* | *90* | | *75 - 125* | *06/13/11 13:37* | *06/14/11 16:14* | *1.00* |
| *Toluene-d8* | *105* | | *76 - 129* | *06/13/11 13:37* | *06/14/11 16:14* | *1.00* |
| *4-Bromofluorobenzene* | *102* | | *67 - 147* | *06/13/11 13:37* | *06/14/11 16:14* | *1.00* |

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

**Lab Sample ID: 11F3327-BLK2**
**Matrix: Soil**
**Analysis Batch: U010499**

**Client Sample ID: Method Blank**
**Prep Type: Total**
**Prep Batch: 11F3327_P**

| Analyte | Blank Result | Blank Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.100 | 0.0550 | mg/kg wet | | 06/13/11 13:37 | 06/14/11 16:45 | 50.0 |
| Ethylbenzene | ND | | 0.100 | 0.0490 | mg/kg wet | | 06/13/11 13:37 | 06/14/11 16:45 | 50.0 |
| Naphthalene | ND | | 0.250 | 0.0850 | mg/kg wet | | 06/13/11 13:37 | 06/14/11 16:45 | 50.0 |
| Toluene | ND | | 0.100 | 0.0445 | mg/kg wet | | 06/13/11 13:37 | 06/14/11 16:45 | 50.0 |
| Xylenes, total | ND | | 0.250 | 0.0950 | mg/kg wet | | 06/13/11 13:37 | 06/14/11 16:45 | 50.0 |

| *Surrogate* | *Blank % Recovery* | *Blank Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *93* | | *67 - 138* | *06/13/11 13:37* | *06/14/11 16:45* | *50.0* |
| *Dibromofluoromethane* | *83* | | *75 - 125* | *06/13/11 13:37* | *06/14/11 16:45* | *50.0* |
| *Toluene-d8* | *107* | | *76 - 129* | *06/13/11 13:37* | *06/14/11 16:45* | *50.0* |
| *4-Bromofluorobenzene* | *102* | | *67 - 147* | *06/13/11 13:37* | *06/14/11 16:45* | *50.0* |

**Lab Sample ID: 11F3327-BS1**
**Matrix: Soil**
**Analysis Batch: U010499**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total**
**Prep Batch: 11F3327_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 45.8 | | ug/kg | | 92 | 78 - 126 |
| Ethylbenzene | 50.0 | 52.4 | | ug/kg | | 105 | 79 - 130 |
| Naphthalene | 50.0 | 66.3 | | ug/kg | | 133 | 72 - 150 |
| Toluene | 50.0 | 50.7 | | ug/kg | | 101 | 76 - 126 |
| Xylenes, total | 150 | 159 | | ug/kg | | 106 | 80 - 130 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *100* | | *67 - 138* |
| *Dibromofluoromethane* | *96* | | *75 - 125* |
| *Toluene-d8* | *103* | | *76 - 129* |
| *4-Bromofluorobenzene* | *101* | | *67 - 147* |

**Lab Sample ID: 11F3327-BSD1**
**Matrix: Soil**
**Analysis Batch: U010499**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total**
**Prep Batch: 11F3327_P**

| Analyte | Spike Added | LCS Dup Result | LCS Dup Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 45.2 | | ug/kg | | 90 | 78 - 126 | 1 | 50 |
| Ethylbenzene | 50.0 | 52.1 | | ug/kg | | 104 | 79 - 130 | 0.4 | 50 |
| Naphthalene | 50.0 | 67.6 | | ug/kg | | 135 | 72 - 150 | 2 | 50 |
| Toluene | 50.0 | 51.6 | | ug/kg | | 103 | 76 - 126 | 2 | 50 |
| Xylenes, total | 150 | 158 | | ug/kg | | 105 | 80 - 130 | 0.9 | 50 |

| *Surrogate* | *LCS Dup % Recovery* | *LCS Dup Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *97* | | *67 - 138* |
| *Dibromofluoromethane* | *94* | | *75 - 125* |
| *Toluene-d8* | *106* | | *76 - 129* |
| *4-Bromofluorobenzene* | *102* | | *67 - 147* |

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

**Lab Sample ID: 11F3327-MS1**
**Matrix: Soil**
**Analysis Batch: U010499**

**Client Sample ID: Matrix Spike**
**Prep Type: Total**
**Prep Batch: 11F3327_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Result | Matrix Spike Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.00223 | | 0.0573 | 0.0381 | | mg/kg dry | ☼ | 63 | 42 - 141 |
| Ethylbenzene | 0.00518 | | 0.0573 | 0.0478 | | mg/kg dry | ☼ | 74 | 21 - 165 |
| Naphthalene | ND | | 0.0573 | 0.0600 | | mg/kg dry | ☼ | 105 | 10 - 160 |
| Toluene | 0.00561 | | 0.0573 | 0.0488 | | mg/kg dry | ☼ | 75 | 45 - 145 |
| Xylenes, total | 0.00303 | | 0.172 | 0.129 | | mg/kg dry | ☼ | 73 | 31 - 159 |

| *Surrogate* | *Matrix Spike % Recovery* | *Matrix Spike Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *90* | | *67 - 138* |
| *Dibromofluoromethane* | *83* | | *75 - 125* |
| *Toluene-d8* | *107* | | *76 - 129* |
| *4-Bromofluorobenzene* | *104* | | *67 - 147* |

**Lab Sample ID: 11F3327-MSD1**
**Matrix: Soil**
**Analysis Batch: U010499**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total**
**Prep Batch: 11F3327_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Dup Result | Matrix Spike Dup Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.00223 | | 0.0576 | 0.0455 | | mg/kg dry | ☼ | 75 | 42 - 141 | 18 | 50 |
| Ethylbenzene | 0.00518 | | 0.0576 | 0.0573 | | mg/kg dry | ☼ | 90 | 21 - 165 | 18 | 50 |
| Naphthalene | ND | | 0.0576 | 0.0659 | | mg/kg dry | ☼ | 114 | 10 - 160 | 9 | 50 |
| Toluene | 0.00561 | | 0.0576 | 0.0570 | | mg/kg dry | ☼ | 89 | 45 - 145 | 16 | 50 |
| Xylenes, total | 0.00303 | | 0.173 | 0.156 | | mg/kg dry | ☼ | 89 | 31 - 159 | 19 | 50 |

| *Surrogate* | *Matrix Spike Dup % Recovery* | *Matrix Spike Dup Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *98* | | *67 - 138* |
| *Dibromofluoromethane* | *90* | | *75 - 125* |
| *Toluene-d8* | *108* | | *76 - 129* |
| *4-Bromofluorobenzene* | *109* | | *67 - 147* |

**Lab Sample ID: 11F3979-BLK1**
**Matrix: Soil**
**Analysis Batch: 11F3979**

**Client Sample ID: Method Blank**
**Prep Type: Total**
**Prep Batch: 11F3979_P**

| Analyte | Blank Result | Blank Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.00200 | 0.00110 | mg/kg wet | | 06/15/11 16:52 | 06/15/11 19:13 | 1.00 |
| Ethylbenzene | ND | | 0.00200 | 0.000980 | mg/kg wet | | 06/15/11 16:52 | 06/15/11 19:13 | 1.00 |
| Naphthalene | ND | | 0.00500 | 0.00170 | mg/kg wet | | 06/15/11 16:52 | 06/15/11 19:13 | 1.00 |
| Toluene | ND | | 0.00200 | 0.000890 | mg/kg wet | | 06/15/11 16:52 | 06/15/11 19:13 | 1.00 |
| Xylenes, total | ND | | 0.00500 | 0.00190 | mg/kg wet | | 06/15/11 16:52 | 06/15/11 19:13 | 1.00 |

| *Surrogate* | *Blank % Recovery* | *Blank Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *106* | | *67 - 138* | *06/15/11 16:52* | *06/15/11 19:13* | *1.00* |
| *Dibromofluoromethane* | *100* | | *75 - 125* | *06/15/11 16:52* | *06/15/11 19:13* | *1.00* |
| *Toluene-d8* | *102* | | *76 - 129* | *06/15/11 16:52* | *06/15/11 19:13* | *1.00* |
| *4-Bromofluorobenzene* | *107* | | *67 - 147* | *06/15/11 16:52* | *06/15/11 19:13* | *1.00* |

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

**Lab Sample ID: 11F3979-BLK2**
**Matrix: Soil**
**Analysis Batch: 11F3979**

**Client Sample ID: Method Blank**
**Prep Type: Total**
**Prep Batch: 11F3979_P**

| Analyte | Blank Result | Blank Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.100 | 0.0550 | mg/kg wet | | 06/15/11 16:52 | 06/15/11 19:41 | 50.0 |
| Ethylbenzene | ND | | 0.100 | 0.0490 | mg/kg wet | | 06/15/11 16:52 | 06/15/11 19:41 | 50.0 |
| Naphthalene | ND | | 0.250 | 0.0850 | mg/kg wet | | 06/15/11 16:52 | 06/15/11 19:41 | 50.0 |
| Toluene | ND | | 0.100 | 0.0445 | mg/kg wet | | 06/15/11 16:52 | 06/15/11 19:41 | 50.0 |
| Xylenes, total | ND | | 0.250 | 0.0950 | mg/kg wet | | 06/15/11 16:52 | 06/15/11 19:41 | 50.0 |

| *Surrogate* | *Blank % Recovery* | *Blank Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4* | *108* | | *67 - 138* | *06/15/11 16:52* | *06/15/11 19:41* | *50.0* |
| *Dibromofluoromethane* | *94* | | *75 - 125* | *06/15/11 16:52* | *06/15/11 19:41* | *50.0* |
| *Toluene-d8* | *101* | | *76 - 129* | *06/15/11 16:52* | *06/15/11 19:41* | *50.0* |
| *4-Bromofluorobenzene* | *105* | | *67 - 147* | *06/15/11 16:52* | *06/15/11 19:41* | *50.0* |

**Lab Sample ID: 11F3979-BS1**
**Matrix: Soil**
**Analysis Batch: 11F3979**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total**
**Prep Batch: 11F3979_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 47.8 | | ug/kg | | 96 | 78 - 126 |
| Ethylbenzene | 50.0 | 49.8 | | ug/kg | | 100 | 79 - 130 |
| Naphthalene | 50.0 | 52.5 | | ug/kg | | 105 | 72 - 150 |
| Toluene | 50.0 | 51.0 | | ug/kg | | 102 | 76 - 126 |
| Xylenes, total | 150 | 145 | | ug/kg | | 97 | 80 - 130 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *105* | | *67 - 138* |
| *Dibromofluoromethane* | *102* | | *75 - 125* |
| *Toluene-d8* | *102* | | *76 - 129* |
| *4-Bromofluorobenzene* | *104* | | *67 - 147* |

**Lab Sample ID: 11F3979-BSD1**
**Matrix: Soil**
**Analysis Batch: 11F3979**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total**
**Prep Batch: 11F3979_P**

| Analyte | Spike Added | LCS Dup Result | LCS Dup Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 50.0 | 47.2 | | ug/kg | | 94 | 78 - 126 | 1 | 50 |
| Ethylbenzene | 50.0 | 49.8 | | ug/kg | | 100 | 79 - 130 | 0.04 | 50 |
| Naphthalene | 50.0 | 53.2 | | ug/kg | | 106 | 72 - 150 | 1 | 50 |
| Toluene | 50.0 | 50.8 | | ug/kg | | 102 | 76 - 126 | 0.4 | 50 |
| Xylenes, total | 150 | 145 | | ug/kg | | 96 | 80 - 130 | 0.6 | 50 |

| *Surrogate* | *LCS Dup % Recovery* | *LCS Dup Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *105* | | *67 - 138* |
| *Dibromofluoromethane* | *101* | | *75 - 125* |
| *Toluene-d8* | *102* | | *76 - 129* |
| *4-Bromofluorobenzene* | *105* | | *67 - 147* |

## Method: SW846 8260B - Volatile Organic Compounds by EPA Method 8260B (Continued)

**Lab Sample ID: 11F3979-MS1**
**Matrix: Soil**
**Analysis Batch: 11F3979**

**Client Sample ID: 347 Ash-2**
**Prep Type: Total**
**Prep Batch: 11F3979_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Result | Matrix Spike Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 24.8 | 25.1 | | mg/kg dry | ☼ | 101 | 42 - 141 |
| Ethylbenzene | 0.775 | | 24.8 | 28.0 | | mg/kg dry | ☼ | 110 | 21 - 165 |
| Naphthalene | 8.03 | | 24.8 | 38.2 | | mg/kg dry | ☼ | 122 | 10 - 160 |
| Toluene | ND | | 24.8 | 27.1 | | mg/kg dry | ☼ | 109 | 45 - 145 |
| Xylenes, total | ND | | 74.5 | 78.6 | | mg/kg dry | ☼ | 106 | 31 - 159 |

| *Surrogate* | *Matrix Spike % Recovery* | *Matrix Spike Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *105* | | *67 - 138* |
| *Dibromofluoromethane* | *101* | | *75 - 125* |
| *Toluene-d8* | *103* | | *76 - 129* |
| *4-Bromofluorobenzene* | *105* | | *67 - 147* |

**Lab Sample ID: 11F3979-MSD1**
**Matrix: Soil**
**Analysis Batch: 11F3979**

**Client Sample ID: 347 Ash-2**
**Prep Type: Total**
**Prep Batch: 11F3979_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Dup Result | Matrix Spike Dup Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 24.8 | 25.3 | | mg/kg dry | ☼ | 102 | 42 - 141 | 0.8 | 50 |
| Ethylbenzene | 0.775 | | 24.8 | 28.1 | | mg/kg dry | ☼ | 110 | 21 - 165 | 0.5 | 50 |
| Naphthalene | 8.03 | | 24.8 | 38.8 | | mg/kg dry | ☼ | 124 | 10 - 160 | 2 | 50 |
| Toluene | ND | | 24.8 | 27.0 | | mg/kg dry | ☼ | 109 | 45 - 145 | 0.07 | 50 |
| Xylenes, total | ND | | 74.5 | 78.1 | | mg/kg dry | ☼ | 105 | 31 - 159 | 0.6 | 50 |

| *Surrogate* | *Matrix Spike Dup % Recovery* | *Matrix Spike Dup Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4* | *105* | | *67 - 138* |
| *Dibromofluoromethane* | *101* | | *75 - 125* |
| *Toluene-d8* | *102* | | *76 - 129* |
| *4-Bromofluorobenzene* | *104* | | *67 - 147* |

## Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D

**Lab Sample ID: 11F1159-BLK1**
**Matrix: Soil**
**Analysis Batch: 11F1159**

**Client Sample ID: Method Blank**
**Prep Type: Total**
**Prep Batch: 11F1159_P**

| Analyte | Blank Result | Blank Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 0.0670 | 0.0140 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Acenaphthylene | ND | | 0.0670 | 0.0200 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Anthracene | ND | | 0.0670 | 0.00900 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Benzo (a) anthracene | ND | | 0.0670 | 0.0110 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Benzo (a) pyrene | ND | | 0.0670 | 0.00800 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Benzo (b) fluoranthene | ND | | 0.0670 | 0.0380 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Benzo (g,h,i) perylene | ND | | 0.0670 | 0.00900 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Benzo (k) fluoranthene | ND | | 0.0670 | 0.0370 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Chrysene | ND | | 0.0670 | 0.0310 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Dibenz (a,h) anthracene | ND | | 0.0670 | 0.0150 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Fluoranthene | ND | | 0.0670 | 0.0110 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Fluorene | ND | | 0.0670 | 0.0200 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Indeno (1,2,3-cd) pyrene | ND | | 0.0670 | 0.0310 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |

## Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D (Continued)

**Lab Sample ID: 11F1159-BLK1**
**Matrix: Soil**
**Analysis Batch: 11F1159**

**Client Sample ID: Method Blank**
**Prep Type: Total**
**Prep Batch: 11F1159_P**

| Analyte | Blank Result | Blank Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | | 0.0670 | 0.0140 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Phenanthrene | ND | | 0.0670 | 0.0100 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| Pyrene | ND | | 0.0670 | 0.0230 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| 1-Methylnaphthalene | ND | | 0.0670 | 0.0120 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |
| 2-Methylnaphthalene | ND | | 0.0670 | 0.0210 | mg/kg wet | | 06/07/11 06:25 | 06/07/11 12:39 | 1.00 |

| *Surrogate* | *Blank % Recovery* | *Blank Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Terphenyl-d14* | *83* | | *18 - 120* | *06/07/11 06:25* | *06/07/11 12:39* | *1.00* |
| *2-Fluorobiphenyl* | *67* | | *14 - 120* | *06/07/11 06:25* | *06/07/11 12:39* | *1.00* |
| *Nitrobenzene-d5* | *66* | | *17 - 120* | *06/07/11 06:25* | *06/07/11 12:39* | *1.00* |

**Lab Sample ID: 11F1159-BS1**
**Matrix: Soil**
**Analysis Batch: 11F1159**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total**
**Prep Batch: 11F1159_P**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1.67 | 1.46 | | mg/kg wet | | 87 | 49 - 120 |
| Acenaphthylene | 1.67 | 1.51 | | mg/kg wet | | 91 | 52 - 120 |
| Anthracene | 1.67 | 1.52 | | mg/kg wet | | 91 | 58 - 120 |
| Benzo (a) anthracene | 1.67 | 1.49 | | mg/kg wet | | 89 | 57 - 120 |
| Benzo (a) pyrene | 1.67 | 1.60 | | mg/kg wet | | 96 | 55 - 120 |
| Benzo (b) fluoranthene | 1.67 | 1.87 | | mg/kg wet | | 112 | 51 - 123 |
| Benzo (g,h,i) perylene | 1.67 | 1.46 | | mg/kg wet | | 87 | 49 - 121 |
| Benzo (k) fluoranthene | 1.67 | 1.41 | | mg/kg wet | | 85 | 42 - 129 |
| Chrysene | 1.67 | 1.43 | | mg/kg wet | | 86 | 55 - 120 |
| Dibenz (a,h) anthracene | 1.67 | 1.54 | | mg/kg wet | | 92 | 50 - 123 |
| Fluoranthene | 1.67 | 1.58 | | mg/kg wet | | 95 | 58 - 120 |
| Fluorene | 1.67 | 1.53 | | mg/kg wet | | 92 | 54 - 120 |
| Indeno (1,2,3-cd) pyrene | 1.67 | 1.52 | | mg/kg wet | | 91 | 50 - 122 |
| Naphthalene | 1.67 | 1.36 | | mg/kg wet | | 82 | 28 - 120 |
| Phenanthrene | 1.67 | 1.58 | | mg/kg wet | | 95 | 56 - 120 |
| Pyrene | 1.67 | 1.48 | | mg/kg wet | | 89 | 56 - 120 |
| 1-Methylnaphthalene | 1.67 | 1.11 | | mg/kg wet | | 67 | 36 - 120 |
| 2-Methylnaphthalene | 1.67 | 1.24 | | mg/kg wet | | 74 | 36 - 120 |

| *Surrogate* | *LCS % Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Terphenyl-d14* | *93* | | *18 - 120* |
| *2-Fluorobiphenyl* | *70* | | *14 - 120* |
| *Nitrobenzene-d5* | *62* | | *17 - 120* |

**Lab Sample ID: 11F1159-MS1**
**Matrix: Soil**
**Analysis Batch: 11F1159**

**Client Sample ID: 335 Ash-1**
**Prep Type: Total**
**Prep Batch: 11F1159_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Result | Matrix Spike Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.424 | | 1.98 | 1.81 | | mg/kg dry | ☼ | 70 | 42 - 120 |
| Acenaphthylene | 0.233 | | 1.98 | 1.70 | | mg/kg dry | ☼ | 74 | 32 - 120 |
| Anthracene | 0.336 | | 1.98 | 2.03 | | mg/kg dry | ☼ | 85 | 10 - 200 |
| Benzo (a) anthracene | 0.387 | | 1.98 | 1.86 | | mg/kg dry | ☼ | 74 | 41 - 120 |

## Method: SW846 8270D - Polyaromatic Hydrocarbons by EPA 8270D (Continued)

**Lab Sample ID: 11F1159-MS1**
**Matrix: Soil**
**Analysis Batch: 11F1159**

**Client Sample ID: 335 Ash-1**
**Prep Type: Total**
**Prep Batch: 11F1159_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Result | Matrix Spike Qualifier | Unit | D | % Rec | % Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzo (a) pyrene | 0.209 | | 1.98 | 1.84 | | mg/kg dry | ☼ | 82 | 33 - 121 |
| Benzo (b) fluoranthene | 0.267 | | 1.98 | 1.84 | | mg/kg dry | ☼ | 79 | 26 - 137 |
| Benzo (g,h,i) perylene | 0.0758 | J | 1.98 | 1.80 | | mg/kg dry | ☼ | 87 | 21 - 124 |
| Benzo (k) fluoranthene | 0.189 | | 1.98 | 1.84 | | mg/kg dry | ☼ | 84 | 14 - 140 |
| Chrysene | 0.429 | | 1.98 | 1.88 | | mg/kg dry | ☼ | 73 | 28 - 123 |
| Dibenz (a,h) anthracene | ND | | 1.98 | 1.86 | | mg/kg dry | ☼ | 94 | 25 - 127 |
| Fluoranthene | 0.695 | | 1.98 | 1.99 | | mg/kg dry | ☼ | 65 | 38 - 120 |
| Fluorene | 1.51 | | 1.98 | 2.58 | | mg/kg dry | ☼ | 54 | 41 - 120 |
| Indeno (1,2,3-cd) pyrene | 0.0786 | J | 1.98 | 1.87 | | mg/kg dry | ☼ | 91 | 25 - 123 |
| Naphthalene | 2.24 | | 1.98 | 2.92 | | mg/kg dry | ☼ | 34 | 25 - 120 |
| Phenanthrene | 2.88 | | 1.98 | 3.68 | | mg/kg dry | ☼ | 40 | 37 - 120 |
| Pyrene | 0.790 | | 1.98 | 2.09 | | mg/kg dry | ☼ | 66 | 29 - 125 |
| 1-Methylnaphthalene | 7.40 | | 1.98 | 5.21 | MHA | mg/kg dry | ☼ | -110 | 19 - 120 |
| 2-Methylnaphthalene | 11.4 | | 1.98 | 7.45 | MHA | mg/kg dry | ☼ | -198 | 11 - 120 |

| *Surrogate* | *Matrix Spike % Recovery* | *Matrix Spike Qualifier* | *Limits* |
|---|---|---|---|
| *Terphenyl-d14* | *89* | | *18 - 120* |
| *2-Fluorobiphenyl* | *65* | | *14 - 120* |
| *Nitrobenzene-d5* | *63* | | *17 - 120* |

**Lab Sample ID: 11F1159-MSD1**
**Matrix: Soil**
**Analysis Batch: 11F1159**

**Client Sample ID: 335 Ash-1**
**Prep Type: Total**
**Prep Batch: 11F1159_P**

| Analyte | Sample Result | Sample Qualifier | Spike Added | Matrix Spike Dup Result | Matrix Spike Dup Qualifier | Unit | D | % Rec | % Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.424 | | 2.03 | 1.81 | | mg/kg dry | ☼ | 69 | 42 - 120 | 0.3 | 40 |
| Acenaphthylene | 0.233 | | 2.03 | 1.69 | | mg/kg dry | ☼ | 72 | 32 - 120 | 0.8 | 30 |
| Anthracene | 0.336 | | 2.03 | 2.02 | | mg/kg dry | ☼ | 83 | 10 - 200 | 0.4 | 50 |
| Benzo (a) anthracene | 0.387 | | 2.03 | 1.92 | | mg/kg dry | ☼ | 75 | 41 - 120 | 3 | 30 |
| Benzo (a) pyrene | 0.209 | | 2.03 | 1.85 | | mg/kg dry | ☼ | 81 | 33 - 121 | 0.4 | 33 |
| Benzo (b) fluoranthene | 0.267 | | 2.03 | 1.95 | | mg/kg dry | ☼ | 83 | 26 - 137 | 6 | 42 |
| Benzo (g,h,i) perylene | 0.0758 | J | 2.03 | 1.83 | | mg/kg dry | ☼ | 87 | 21 - 124 | 2 | 32 |
| Benzo (k) fluoranthene | 0.189 | | 2.03 | 1.71 | | mg/kg dry | ☼ | 75 | 14 - 140 | 7 | 39 |
| Chrysene | 0.429 | | 2.03 | 1.94 | | mg/kg dry | ☼ | 75 | 28 - 123 | 3 | 34 |
| Dibenz (a,h) anthracene | ND | | 2.03 | 1.87 | | mg/kg dry | ☼ | 92 | 25 - 127 | 0.5 | 31 |
| Fluoranthene | 0.695 | | 2.03 | 2.08 | | mg/kg dry | ☼ | 68 | 38 - 120 | 5 | 35 |
| Fluorene | 1.51 | | 2.03 | 2.80 | | mg/kg dry | ☼ | 63 | 41 - 120 | 8 | 37 |
| Indeno (1,2,3-cd) pyrene | 0.0786 | J | 2.03 | 1.89 | | mg/kg dry | ☼ | 89 | 25 - 123 | 1 | 32 |
| Naphthalene | 2.24 | | 2.03 | 3.32 | | mg/kg dry | ☼ | 53 | 25 - 120 | 13 | 42 |
| Phenanthrene | 2.88 | | 2.03 | 4.07 | | mg/kg dry | ☼ | 58 | 37 - 120 | 10 | 32 |
| Pyrene | 0.790 | | 2.03 | 2.19 | | mg/kg dry | ☼ | 69 | 29 - 125 | 4 | 40 |
| 1-Methylnaphthalene | 7.40 | | 2.03 | 6.70 | MHA | mg/kg dry | ☼ | -35 | 19 - 120 | 25 | 45 |
| 2-Methylnaphthalene | 11.4 | | 2.03 | 9.76 | MHA | mg/kg dry | ☼ | -80 | 11 - 120 | 27 | 50 |

| *Surrogate* | *Matrix Spike Dup % Recovery* | *Matrix Spike Dup Qualifier* | *Limits* |
|---|---|---|---|
| *Terphenyl-d14* | *87* | | *18 - 120* |
| *2-Fluorobiphenyl* | *62* | | *14 - 120* |
| *Nitrobenzene-d5* | *63* | | *17 - 120* |

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUF0682

## Method: SW-846 - General Chemistry Parameters

**Lab Sample ID: 11F1689-DUP1**
**Matrix: Soil**
**Analysis Batch: 11F1689**

**Client Sample ID: Duplicate**
**Prep Type: Total**
**Prep Batch: 11F1689_P**

| Analyte | Sample Result | Sample Qualifier | | Duplicate Result | Duplicate Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| % Dry Solids | 93.8 | | | 94.0 | | % | | | | 0.2 | 20 |

## GCMS Volatiles

### Analysis Batch: 11F3979

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 11F3979-BS1 | Lab Control Sample | Total | Soil | SW846 8260B | 11F3979_P |
| 11F3979-BSD1 | Lab Control Sample Dup | Total | Soil | SW846 8260B | 11F3979_P |
| 11F3979-BLK1 | Method Blank | Total | Soil | SW846 8260B | 11F3979_P |
| 11F3979-BLK2 | Method Blank | Total | Soil | SW846 8260B | 11F3979_P |
| NUF0682-05 - RE3 | 347 Ash-2 | Total | Soil | SW846 8260B | 11F3979_P |
| 11F3979-MS1 | 347 Ash-2 | Total | Soil | SW846 8260B | 11F3979_P |
| 11F3979-MSD1 | 347 Ash-2 | Total | Soil | SW846 8260B | 11F3979_P |

### Analysis Batch: U010494

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 11F2864-BS1 | Lab Control Sample | Total | Soil | SW846 8260B | 11F2864_P |
| 11F2864-BSD1 | Lab Control Sample Dup | Total | Soil | SW846 8260B | 11F2864_P |
| 11F2864-BLK1 | Method Blank | Total | Soil | SW846 8260B | 11F2864_P |
| NUF0682-01 | 335 Ash-1 | Total | Soil | SW846 8260B | 11F2864_P |
| NUF0682-03 | 341 Ash | Total | Soil | SW846 8260B | 11F2864_P |
| NUF0682-05 | 347 Ash-2 | Total | Soil | SW846 8260B | 11F2864_P |
| 11F2864-MS1 | Matrix Spike | Total | Soil | SW846 8260B | 11F2864_P |
| 11F2864-MSD1 | Matrix Spike Duplicate | Total | Soil | SW846 8260B | 11F2864_P |

### Analysis Batch: U010499

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 11F3327-BS1 | Lab Control Sample | Total | Soil | SW846 8260B | 11F3327_P |
| 11F3327-BSD1 | Lab Control Sample Dup | Total | Soil | SW846 8260B | 11F3327_P |
| 11F3327-BLK1 | Method Blank | Total | Soil | SW846 8260B | 11F3327_P |
| 11F3327-BLK2 | Method Blank | Total | Soil | SW846 8260B | 11F3327_P |
| NUF0682-01 - RE1 | 335 Ash-1 | Total | Soil | SW846 8260B | 11F3327_P |
| NUF0682-02 - RE1 | 335 Ash-2 | Total | Soil | SW846 8260B | 11F3327_P |
| NUF0682-02 - RE2 | 335 Ash-2 | Total | Soil | SW846 8260B | 11F3327_P |
| NUF0682-04 - RE1 | 347 Ash-1 | Total | Soil | SW846 8260B | 11F3327_P |
| NUF0682-03 - RE1 | 341 Ash | Total | Soil | SW846 8260B | 11F3327_P |
| NUF0682-05 - RE1 | 347 Ash-2 | Total | Soil | SW846 8260B | 11F3327_P |
| 11F3327-MS1 | Matrix Spike | Total | Soil | SW846 8260B | 11F3327_P |
| 11F3327-MSD1 | Matrix Spike Duplicate | Total | Soil | SW846 8260B | 11F3327_P |

### Prep Batch: 11F2864_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 11F2864-BS1 | Lab Control Sample | Total | Soil | EPA 5035 | |
| 11F2864-BSD1 | Lab Control Sample Dup | Total | Soil | EPA 5035 | |
| 11F2864-BLK1 | Method Blank | Total | Soil | EPA 5035 | |
| NUF0682-01 | 335 Ash-1 | Total | Soil | EPA 5035 | |
| NUF0682-03 | 341 Ash | Total | Soil | EPA 5035 | |
| NUF0682-05 | 347 Ash-2 | Total | Soil | EPA 5035 | |
| 11F2864-MS1 | Matrix Spike | Total | Soil | EPA 5035 | |
| 11F2864-MSD1 | Matrix Spike Duplicate | Total | Soil | EPA 5035 | |

### Prep Batch: 11F3327_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 11F3327-BS1 | Lab Control Sample | Total | Soil | EPA 5035 | |
| 11F3327-BSD1 | Lab Control Sample Dup | Total | Soil | EPA 5035 | |
| 11F3327-BLK1 | Method Blank | Total | Soil | EPA 5035 | |
| 11F3327-BLK2 | Method Blank | Total | Soil | EPA 5035 | |
| NUF0682-01 - RE1 | 335 Ash-1 | Total | Soil | EPA 5035 | |

## GCMS Volatiles (Continued)

### Prep Batch: 11F3327_P (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| NUF0682-02 - RE1 | 335 Ash-2 | Total | Soil | EPA 5035 | |
| NUF0682-02 - RE2 | 335 Ash-2 | Total | Soil | EPA 5035 | |
| NUF0682-04 - RE1 | 347 Ash-1 | Total | Soil | EPA 5035 | |
| NUF0682-03 - RE1 | 341 Ash | Total | Soil | EPA 5035 | |
| NUF0682-05 - RE1 | 347 Ash-2 | Total | Soil | EPA 5035 | |
| 11F3327-MS1 | Matrix Spike | Total | Soil | EPA 5035 | |
| 11F3327-MSD1 | Matrix Spike Duplicate | Total | Soil | EPA 5035 | |

### Prep Batch: 11F3979_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 11F3979-BS1 | Lab Control Sample | Total | Soil | EPA 5035 | |
| 11F3979-BSD1 | Lab Control Sample Dup | Total | Soil | EPA 5035 | |
| 11F3979-BLK1 | Method Blank | Total | Soil | EPA 5035 | |
| 11F3979-BLK2 | Method Blank | Total | Soil | EPA 5035 | |
| NUF0682-05 - RE3 | 347 Ash-2 | Total | Soil | EPA 5035 | |
| 11F3979-MS1 | 347 Ash-2 | Total | Soil | EPA 5035 | |
| 11F3979-MSD1 | 347 Ash-2 | Total | Soil | EPA 5035 | |

## GCMS Semivolatiles

### Analysis Batch: 11F1159

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 11F1159-BLK1 | Method Blank | Total | Soil | SW846 8270D | 11F1159_P |
| 11F1159-BS1 | Lab Control Sample | Total | Soil | SW846 8270D | 11F1159_P |
| 11F1159-MS1 | 335 Ash-1 | Total | Soil | SW846 8270D | 11F1159_P |
| 11F1159-MSD1 | 335 Ash-1 | Total | Soil | SW846 8270D | 11F1159_P |
| NUF0682-01 | 335 Ash-1 | Total | Soil | SW846 8270D | 11F1159_P |
| NUF0682-02 | 335 Ash-2 | Total | Soil | SW846 8270D | 11F1159_P |
| NUF0682-04 | 347 Ash-1 | Total | Soil | SW846 8270D | 11F1159_P |
| NUF0682-05 | 347 Ash-2 | Total | Soil | SW846 8270D | 11F1159_P |
| NUF0682-01 - RE1 | 335 Ash-1 | Total | Soil | SW846 8270D | 11F1159_P |
| NUF0682-03 | 341 Ash | Total | Soil | SW846 8270D | 11F1159_P |

### Prep Batch: 11F1159_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 11F1159-BLK1 | Method Blank | Total | Soil | EPA 3550C | |
| 11F1159-BS1 | Lab Control Sample | Total | Soil | EPA 3550C | |
| 11F1159-MS1 | 335 Ash-1 | Total | Soil | EPA 3550C | |
| 11F1159-MSD1 | 335 Ash-1 | Total | Soil | EPA 3550C | |
| NUF0682-01 | 335 Ash-1 | Total | Soil | EPA 3550C | |
| NUF0682-02 | 335 Ash-2 | Total | Soil | EPA 3550C | |
| NUF0682-04 | 347 Ash-1 | Total | Soil | EPA 3550C | |
| NUF0682-05 | 347 Ash-2 | Total | Soil | EPA 3550C | |
| NUF0682-01 - RE1 | 335 Ash-1 | Total | Soil | EPA 3550C | |
| NUF0682-03 | 341 Ash | Total | Soil | EPA 3550C | |

## Extractions

### Analysis Batch: 11F1689

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 11F1689-DUP1 | Duplicate | Total | Soil | SW-846 | 11F1689_P |
| NUF0682-01 | 335 Ash-1 | Total | Soil | SW-846 | 11F1689_P |

## Extractions (Continued)

### Analysis Batch: 11F1689 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| NUF0682-02 | 335 Ash-2 | Total | Soil | SW-846 | 11F1689_P |
| NUF0682-03 | 341 Ash | Total | Soil | SW-846 | 11F1689_P |
| NUF0682-04 | 347 Ash-1 | Total | Soil | SW-846 | 11F1689_P |
| NUF0682-05 | 347 Ash-2 | Total | Soil | SW-846 | 11F1689_P |

### Prep Batch: 11F1689_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 11F1689-DUP1 | Duplicate | Total | Soil | % Solids | |
| NUF0682-01 | 335 Ash-1 | Total | Soil | % Solids | |
| NUF0682-02 | 335 Ash-2 | Total | Soil | % Solids | |
| NUF0682-03 | 341 Ash | Total | Soil | % Solids | |
| NUF0682-04 | 347 Ash-1 | Total | Soil | % Solids | |
| NUF0682-05 | 347 Ash-2 | Total | Soil | % Solids | |

## Client Sample ID: 335 Ash-1

**Lab Sample ID: NUF0682-01**

**Date Collected: 05/31/11 11:45**

**Matrix: Soil**

**Date Received: 06/04/11 08:45**

**Percent Solids: 81.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared Or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total | Prep | EPA 5035 | | 0.713 | 11F2864_P | 05/31/11 11:45 | TSP | TAL NSH |
| Total | Analysis | SW846 8260B | | 1.00 | U010494 | 06/13/11 16:49 | MJH | TAL NSH |
| Total | Prep | EPA 5035 | RE1 | 1.43 | 11F3327_P | 05/31/11 11:45 | TSP | TAL NSH |
| Total | Analysis | SW846 8260B | RE1 | 50.0 | U010499 | 06/14/11 21:59 | MJH | TAL NSH |
| Total | Prep | EPA 3550C | | 1.00 | 11F1159_P | 06/04/11 13:42 | JJR | TAL NSH |
| Total | Analysis | SW846 8270D | | 1.00 | 11F1159 | 06/07/11 17:24 | BES | TAL NSH |
| Total | Prep | EPA 3550C | RE1 | 1.00 | 11F1159_P | 06/04/11 13:42 | JJR | TAL NSH |
| Total | Analysis | SW846 8270D | RE1 | 5.00 | 11F1159 | 06/08/11 18:43 | BES | TAL NSH |
| Total | Prep | % Solids | | 1.00 | 11F1689_P | 06/08/11 12:31 | AMS | TAL NSH |
| Total | Analysis | SW-846 | | 1.00 | 11F1689 | 06/09/11 10:37 | AMS | TAL NSH |

## Client Sample ID: 335 Ash-2

**Lab Sample ID: NUF0682-02**

**Date Collected: 05/31/11 15:30**

**Matrix: Soil**

**Date Received: 06/04/11 08:45**

**Percent Solids: 81.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared Or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total | Prep | EPA 5035 | RE1 | 0.750 | 11F3327_P | 05/31/11 15:30 | TSP | TAL NSH |
| Total | Analysis | SW846 8260B | RE1 | 1.00 | U010499 | 06/14/11 22:31 | MJH | TAL NSH |
| Total | Prep | EPA 5035 | RE2 | 0.963 | 11F3327_P | 06/05/11 10:09 | TSP | TAL NSH |
| Total | Analysis | SW846 8260B | RE2 | 50.0 | U010499 | 06/14/11 23:02 | MJH | TAL NSH |
| Total | Prep | EPA 3550C | | 1.00 | 11F1159_P | 06/04/11 13:42 | JJR | TAL NSH |
| Total | Analysis | SW846 8270D | | 1.00 | 11F1159 | 06/07/11 17:46 | BES | TAL NSH |
| Total | Prep | % Solids | | 1.00 | 11F1689_P | 06/08/11 12:31 | AMS | TAL NSH |
| Total | Analysis | SW-846 | | 1.00 | 11F1689 | 06/09/11 10:37 | AMS | TAL NSH |

## Client Sample ID: 341 Ash

**Lab Sample ID: NUF0682-03**

**Date Collected: 06/01/11 11:30**

**Matrix: Soil**

**Date Received: 06/04/11 08:45**

**Percent Solids: 81.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared Or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total | Prep | EPA 5035 | | 0.876 | 11F2864_P | 06/01/11 11:30 | TSP | TAL NSH |
| Total | Analysis | SW846 8260B | | 1.00 | U010494 | 06/13/11 17:52 | MJH | TAL NSH |
| Total | Prep | EPA 5035 | RE1 | 0.904 | 11F3327_P | 06/01/11 11:30 | TSP | TAL NSH |
| Total | Analysis | SW846 8260B | RE1 | 50.0 | U010499 | 06/15/11 00:36 | MJH | TAL NSH |
| Total | Prep | EPA 3550C | | 1.00 | 11F1159_P | 06/04/11 13:42 | JJR | TAL NSH |
| Total | Analysis | SW846 8270D | | 1.00 | 11F1159 | 06/08/11 19:05 | BES | TAL NSH |
| Total | Prep | % Solids | | 1.00 | 11F1689_P | 06/08/11 12:31 | AMS | TAL NSH |
| Total | Analysis | SW-846 | | 1.00 | 11F1689 | 06/09/11 10:37 | AMS | TAL NSH |

## Client Sample ID: 347 Ash-1

**Lab Sample ID: NUF0682-04**

**Date Collected: 06/01/11 16:00**

**Matrix: Soil**

**Date Received: 06/04/11 08:45**

**Percent Solids: 86.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared Or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total | Prep | EPA 5035 | RE1 | 0.909 | 11F3327_P | 06/01/11 16:00 | TSP | TAL NSH |

# Lab Chronicle

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUF0682

## Client Sample ID: 347 Ash-1

**Lab Sample ID: NUF0682-04**

**Date Collected: 06/01/11 16:00**

**Matrix: Soil**

**Date Received: 06/04/11 08:45**

**Percent Solids: 86.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared Or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total | Analysis | SW846 8260B | RE1 | 1.00 | U010499 | 06/14/11 23:33 | MJH | TAL NSH |
| Total | Prep | EPA 3550C | | 1.00 | 11F1159_P | 06/04/11 13:42 | JJR | TAL NSH |
| Total | Analysis | SW846 8270D | | 1.00 | 11F1159 | 06/07/11 18:30 | BES | TAL NSH |
| Total | Prep | % Solids | | 1.00 | 11F1689_P | 06/08/11 12:31 | AMS | TAL NSH |
| Total | Analysis | SW-846 | | 1.00 | 11F1689 | 06/09/11 10:37 | AMS | TAL NSH |

## Client Sample ID: 347 Ash-2

**Lab Sample ID: NUF0682-05**

**Date Collected: 06/02/11 11:45**

**Matrix: Soil**

**Date Received: 06/04/11 08:45**

**Percent Solids: 78**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared Or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total | Prep | EPA 5035 | | 0.853 | 11F2864_P | 06/02/11 11:45 | TSP | TAL NSH |
| Total | Analysis | SW846 8260B | | 1.00 | U010494 | 06/13/11 18:54 | MJH | TAL NSH |
| Total | Prep | EPA 5035 | RE1 | 0.775 | 11F3327_P | 06/02/11 11:45 | TSP | TAL NSH |
| Total | Analysis | SW846 8260B | RE1 | 50.0 | U010499 | 06/15/11 01:08 | MJH | TAL NSH |
| Total | Prep | EPA 5035 | RE3 | 0.775 | 11F3979_P | 06/02/11 11:45 | TSP | TAL NSH |
| Total | Analysis | SW846 8260B | RE3 | 500 | 11F3979 | 06/15/11 22:30 | MJH | TAL NSH |
| Total | Prep | EPA 3550C | | 1.00 | 11F1159_P | 06/04/11 13:42 | JJR | TAL NSH |
| Total | Analysis | SW846 8270D | | 1.00 | 11F1159 | 06/07/11 18:52 | BES | TAL NSH |
| Total | Prep | % Solids | | 1.00 | 11F1689_P | 06/08/11 12:31 | AMS | TAL NSH |
| Total | Analysis | SW-846 | | 1.00 | 11F1689 | 06/09/11 10:37 | AMS | TAL NSH |

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

# Method Summary

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUF0682

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| SW-846 | General Chemistry Parameters | | TAL NSH |
| SW846 8260B | Volatile Organic Compounds by EPA Method 8260B | | TAL NSH |
| SW846 8270D | Polyaromatic Hydrocarbons by EPA 8270D | | TAL NSH |

**Protocol References:**

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Road, Nashville, TN 37204, TEL 800-765-0980

# Certification Summary

Client: EEG - Small Business Group, Inc. (2449)
Project/Site: [none]

TestAmerica Job ID: NUF0682

| Laboratory | Authority | Program | EPA Region | Certification ID |
|---|---|---|---|---|
| TestAmerica Nashville | A2LA | ISO/IEC 17025 | | 0453.07 |
| TestAmerica Nashville | A2LA | WY UST | | 453.07 |
| TestAmerica Nashville | AIHA | IHLAP | | 100790 |
| TestAmerica Nashville | Alabama | State Program | 4 | 41150 |
| TestAmerica Nashville | Alaska | Alaska UST | 10 | UST-087 |
| TestAmerica Nashville | Arizona | State Program | 9 | AZ0473 |
| TestAmerica Nashville | Arkansas | State Program | 6 | 88-0737 |
| TestAmerica Nashville | CALA | CALA | | 3744 |
| TestAmerica Nashville | California | NELAC | 9 | 1168CA |
| TestAmerica Nashville | Colorado | State Program | 8 | N/A |
| TestAmerica Nashville | Connecticut | State Program | 1 | PH-0220 |
| TestAmerica Nashville | Florida | NELAC | 4 | E87358 |
| TestAmerica Nashville | Illinois | NELAC | 5 | 200010 |
| TestAmerica Nashville | Iowa | State Program | 7 | 131 |
| TestAmerica Nashville | Kansas | NELAC | 7 | E-10229 |
| TestAmerica Nashville | Kentucky | Kentucky UST | 4 | 19 |
| TestAmerica Nashville | Kentucky | State Program | 4 | 90038 |
| TestAmerica Nashville | Louisiana | NELAC | 6 | 30613 |
| TestAmerica Nashville | Louisiana | NELAC | 6 | LA100011 |
| TestAmerica Nashville | Maryland | State Program | 3 | 316 |
| TestAmerica Nashville | Massachusetts | State Program | 1 | M-TN032 |
| TestAmerica Nashville | Minnesota | NELAC | 5 | 047-999-345 |
| TestAmerica Nashville | Mississippi | State Program | 4 | N/A |
| TestAmerica Nashville | Montana | MT DEQ UST | 8 | NA |
| TestAmerica Nashville | Nevada | State Program | 9 | TN00032 |
| TestAmerica Nashville | New Hampshire | NELAC | 1 | 2963 |
| TestAmerica Nashville | New Jersey | NELAC | 2 | TN965 |
| TestAmerica Nashville | New York | NELAC | 2 | 11342 |
| TestAmerica Nashville | North Carolina | North Carolina DENR | 4 | 387 |
| TestAmerica Nashville | North Dakota | State Program | 8 | R-146 |
| TestAmerica Nashville | Ohio | OVAP | 5 | CL0033 |
| TestAmerica Nashville | Oklahoma | State Program | 6 | 9412 |
| TestAmerica Nashville | Oregon | NELAC | 10 | TN200001 |
| TestAmerica Nashville | Pennsylvania | NELAC | 3 | 68-00585 |
| TestAmerica Nashville | Rhode Island | State Program | 1 | LAO00268 |
| TestAmerica Nashville | South Carolina | State Program | 4 | 84009 |
| TestAmerica Nashville | South Carolina | State Program | 4 | 84009 |
| TestAmerica Nashville | Tennessee | State Program | 4 | 2008 |
| TestAmerica Nashville | Texas | NELAC | 6 | T104704077-09-TX |
| TestAmerica Nashville | USDA | USDA | | S-48469 |
| TestAmerica Nashville | Utah | NELAC | 8 | TAN |
| TestAmerica Nashville | Virginia | State Program | 3 | 00323 |
| TestAmerica Nashville | Washington | State Program | 10 | C789 |
| TestAmerica Nashville | West Virginia | West Virginia DEP | 3 | 219 |
| TestAmerica Nashville | Wisconsin | State Program | 5 | 998020430 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

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

Compliance Monitoring? Yes ____ No ____

Enforcement Action? Yes ____ No ____

Client Name/Account #: EEG - SBG # 2449

Address: 10179 Highway 78

City/State/Zip: Ladson, SC 29456

Site State: SC

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

PO#: 1027

Telephone Number: 843.412.2097 Fax No.: (843) 879-0401

TA Quote #:

Sampler Name: (Print) Brady Shaw

Project ID: Laurel Bay Housing Project

Sampler Signature:

Project #:

**NUF0682**
06/20/11 23:59

| Sample ID / Description | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative: Ice | $HNO_3$ (Red Label) | HCl (Blue Label) 350, 625, 1664 | NaOH ( Orange Label) | $H_2SO_4$ Plastic (Yellow Label) | $H_2SO_4$ Glass(Yellow Label) | None (Black Label) | Other ( Specify) Methanol | Matrix: Groundwater | Wastewater | Drinking Water | Sludge | Soil | Other (specify) | Analyze For: BTEX + Napth - 8260B | PAH - 8270D | | | | | | | | | | RUSH TAT (Pre-Schedule) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 335 Ash-1 | 5/31/11 | 1145 | 5 | X | | | | | 2 | | | | 2 | 1 | | | | | X | | X | X | | | | | 1 | | | | | |
| 335 Ash-2 | 5/31/11 | 1530 | 5 | X | | | | | 2 | | | | 2 | 1 | | | | | X | | X | X | | | | | 2 | | | | | |
| 341 Ash | 6/1/11 | 1130 | 5 | X | | | | | 2 | | | | 2 | 1 | | | | | X | | X | X | | | | | 3 | | | | | |
| 347 Ash-1 | 6/1/11 | 1600 | 5 | X | | | | | 2 | | | | 2 | 1 | | | | | X | | X | X | | | | | 4 | | | | | |
| 347 Ash -2 | 6/2/11 | 1145 | 5 | X | | | | | 2 | | | | 2 | 1 | | | | | X | | X | X | | | | | 5 | | | | | |

Special Instructions:

Method of Shipment: FEDEX

| Relinquished by: | Date | Time | Received by: | Date | Time |
|---|---|---|---|---|---|
| | 6/3/11 | 1400 | FEDEX | | |
| Relinquished by: | Date | Time | Received by TestAmerica: | Date | Time |
| | | | | 6/4/11 | 0315 |

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

ATTACHMENT A

# UST Certificate of Disposal

## CONTRACTOR

Small Business Group, Inc.
10179 Highway 78
Ladson, SC 29456

TEL (843) 879-0403
FAX (843) 879-0401

## TANK ID & LOCATION

UST 341Ash; 341 Ash Street, Laurel Bay Housing Area, MCAS Beaufort, S.C.

## DISPOSAL LOCATION

Coastal Auto Salvage Co., Inc.
130 Laurel Bay Road
Beaufort, S.C. 29906

| TYPE OF TANK | SIZE (GAL) |
|---|---|
| Steel | 280 |

## CLEANING/DISPOSAL METHOD

The tank and piping were unearthed, cut open, cleaned with a pressure washer, cut into sections, and recycled.

## DISPOSAL CERTIFICATION

I certify that the above tank, piping and equipment has been properly cleaned and disposed of.

T. L. O'Dell / 6/27/11
(Name) (Date)

**Appendix C**
**Laboratory Analytical Report - Groundwater**

CDM - AECOM
Multimedia Joint Venture

# Volatile Organic Compounds by GC/MS

Client: **AECOM - Resolution Consultants**
Laboratory ID: **QK11025-017**
Description: **BEALB341TW01WG20151111**
Matrix: **Aqueous**
Date Sampled: **11/11/2015 1240**
Date Received: **11/12/2015**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 5030B | 8260B | 1 | 11/18/2015 1306 | JM1 | | 89913 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | LOD | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 71-43-2 | 8260B | 0.45 | U | 5.0 | 0.45 | 0.21 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 8260B | 0.51 | U | 5.0 | 0.51 | 0.21 | ug/L | 1 |
| **Naphthalene** | **91-20-3** | **8260B** | **0.28** | **J** | **5.0** | 0.96 | **0.14** | **ug/L** | **1** |
| Toluene | 108-88-3 | 8260B | 0.48 | U | 5.0 | 0.48 | 0.24 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 8260B | 0.57 | U | 5.0 | 0.57 | 0.32 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| Bromofluorobenzene | | 101 | 75-120 |
| 1,2-Dichloroethane-d4 | | 96 | 70-120 |
| Toluene-d8 | | 107 | 85-120 |
| Dibromofluoromethane | | 98 | 85-115 |

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

# Semivolatile Organic Compounds by GC/MS (SIM)

Client: **AECOM - Resolution Consultants**
Laboratory ID: **QK11025-017**
Description: **BEALB341TW01WG20151111**
Matrix: **Aqueous**
Date Sampled: **11/11/2015 1240**
Date Received: **11/12/2015**

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|---|---|---|---|---|---|---|---|
| 1 | 3520C | 8270D (SIM) | 1 | 11/24/2015 1742 | RBH | 11/13/2015 1646 | 89585 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | LOD | DL | Units | Run |
|---|---|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | 56-55-3 | 8270D (SIM) | 0.040 | U | 0.20 | 0.040 | 0.019 | ug/L | 1 |
| Benzo(b)fluoranthene | 205-99-2 | 8270D (SIM) | 0.040 | U | 0.20 | 0.040 | 0.019 | ug/L | 1 |
| Benzo(k)fluoranthene | 207-08-9 | 8270D (SIM) | 0.040 | U | 0.20 | 0.040 | 0.024 | ug/L | 1 |
| Chrysene | 218-01-9 | 8270D (SIM) | 0.040 | U | 0.20 | 0.040 | 0.021 | ug/L | 1 |
| Dibenzo(a,h)anthracene | 53-70-3 | 8270D (SIM) | 0.080 | U | 0.20 | 0.080 | 0.040 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|---|---|---|---|
| 2-Methylnaphthalene-d10 | | 60 | 15-139 |
| Fluoranthene-d10 | | 62 | 23-154 |

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
Q = Surrogate failure
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
L = LCS/LCSD failure
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
S = MS/MSD failure

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

**Appendix D**
**Regulatory Correspondence**

CDM - AECOM
Multimedia Joint Venture

D H E C
PROMOTE PROTECT PROSPER
Catherine E. Heigel, Director
*Promoting and protecting the health of the public and the environment*

July 1, 2015

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

RE: IGWA
Laurel Bay Underground Storage Tank Assessment Reports for:
*See attached sheet*

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received the referenced Underground Storage Tank 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. The submitted analytical results indicate that petroleum constituents are above established Risk-Based Screening Levels and additional investigation is warranted. Specifically, the Department requests that a groundwater sampling proposal be generated to determine if there has been an impact to groundwater at this site.

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 M. Krieg

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

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

**Attachment to**: Krieg to Drawdy
Subject: IGWA
Dated 7/1/2015

**Laurel Bay Underground Storage Tank Assessment Reports for: (97 addresses/110 tanks)**

| | |
|---|---|
| 118 Banyan | 343 Ash Tank 2 |
| 126 Banyan | 344 Ash Tank 2 |
| 127 Banyan | 347 Ash Tank 2 |
| 130 Banyan Tank 1 | 378 Aspen Tank 2 |
| 141 Laurel Bay | 379 Aspen |
| 151 Laurel Bay | 382 Aspen Tank 1 |
| 224 Cypress | 382 Aspen Tank 2 |
| 227 Cypress | 394 Acorn Tank 2 |
| 256 Beech Tank 2 | 400 Elderberry |
| 257 Beech Tank 1 | 432 Elderberry |
| 257 Beech Tank 2 | 436 Elderberry |
| 264 Beech | 473 Dogwood Tank 2 |
| 265 Beech Tank 2 | 482 Laurel Bay |
| 265 Beech Tank 3 | 517 Laurel Bay |
| 275 Birch | 586 Aster |
| 277 Birch Tank 1 | 632 Dahlia |
| 285 Birch | 639 Dahlia Tank 2 |
| 292 Birch Tank 3 | 643 Dahlia Tank 1 |
| 297 Birch | 644 Dahlia Tank 1 |
| 301 Ash | 644 Dahlia Tank 2 |
| 306 Ash | 646 Dahlia Tank 1 |
| 310 Ash Tank 1 | 646 Dahlia Tank 2 |
| 313 Ash | 665 Camellia |
| 315 Ash Tank 2 | 699 Abelia |
| 316 Ash | 744 Blue Bell |
| 319 Ash | 745 Blue Bell Tank 1 |
| 320 Ash | 747 Blue Bell Tank 1 |
| 321 Ash | 747 Blue Bell Tank 2 |
| 329 Ash | 747 Blue Bell Tank 3 |
| 330 Ash Tank 2 | 749 Blue Bell Tank 1 |
| 331 Ash | 749 Blue Bell Tank 2 |
| 332 Ash | 751 Blue Bell |
| 333 Ash | 762 Althea |
| 335 Ash Tank 1 | 765 Althea Tank 2 |
| 335 Ash Tank 2 | 766 Althea Tank 4 |
| 341 Ash | 767 Althea Tank 1 |
| 342 Ash Tank 1 | 768 Althea Tank 2 |
| 342 Ash Tank 2 | 768 Althea Tank 3 |

**Laurel Bay Underground Storage Tank Assessment Reports for: (98 addresses/110 tanks) cont.**

| | |
|---|---|
| 768 Althea Tank 4 | 1067 Gardenia |
| 769 Althea Tank 1 | 1077 Heather |
| 769 Althea Tank 2 | 1081 Heather |
| 775 Althea | 1101 Iris Tank 2 |
| 819 Azalea | 1104 Iris |
| 840 Azalea | 1105 Iris Tank 2 |
| 878 Cobia | 1124 Iris Tank 2 |
| 891 Cobia | 1142 Iris Tank 2 |
| 913 Barracuda | 1146 Iris Tank 2 |
| 916 Barracuda | 1218 Cardinal |
| 923 Albacore | 1240 Dove |
| 1004 Bobwhite | 1266 Dove |
| 1022 Foxglove | 1292 Eagle |
| 1031 Foxglove | 1299 Eagle Tank 1 |
| 1034 Foxglove Tank 2 | 1302 Eagle |
| 1061 Gardenia Tank 3 | 1336 Albatross |
| 1064 Gardenia | 1351 Cardinal |

D H E C
PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

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

Division of Waste Management
Bureau of Land and Waste Management

June 8, 2016

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

RE: Approval and Concurrence with Draft Final Initial Groundwater Investigation Report-November and December 2015
Laurel Bay Military Housing Area Multiple Properties
Dated April 2015

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Investigation Report for the attached addresses on May 2, 2016. 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).

Per the Department's request, groundwater samples were collected from the attached referenced addresses. The Department reviewed the groundwater data and previous investigations and it agrees with the conclusions and recommendations included in the document. To further assess the impact to groundwater, permanent wells should be installed at the 15 stated addresses. For the remaining 80 addresses, there is no indication of contamination on the property and therefore no further investigation is required at this time.

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

If you have any questions, please contact me at petruslb@dhec.sc.gov or 803-898-0294.

Sincerely,

Laurel Petrus
RCRA Federal Facilities Section

*Attachment: Specific Property Recommendations*

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

Attachment to: Petrus to Drawdy
Subject: Draft Final Initial Groundwater Investigation Report-November and December 2015
Specific Property Recommendations
Dated June 8, 2016

**Draft Final Initial Groundwater Investigation Report for (95 addresses)**

| **Permanent Monitoring Well Investigation recommendation (15 addresses)** | |
|---|---|
| 130 Banyan Drive | 473 Dogwood Drive |
| 256 Beech Street | 747 Blue Bell Lane |
| 285 Birch Drive | 749 Blue Bell Lane |
| 292 Birch Drive | 775 Althea Street |
| 330 Ash Street | 1034 Foxglove Street |
| 331 Ash Street | 1104 Iris Lane |
| 335 Ash Street | 1124 Iris Lane |
| 342 Ash Street | |

| **No Further Action recommendation (80 addresses)** | |
|---|---|
| 118 Banyan Drive | 644 Dahlia Drive |
| 126 Banyan Drive | 646 Dahlia Drive |
| 127 Banyan Drive | 665 Camellia Drive |
| 141 Laurel Bay Blvd | 699 Abelia Street |
| 151 Laurel Bay Blvd | 744 Blue Bell Lane |
| 224 Cypress Street | 745 Blue Bell Lane |
| 227 Cypress Street | 751 Blue Bell Lane |
| 257 Beech Street | 762 Althea Street |
| 264 Beech Street | 765 Althea Street |
| 265 Beech Street | 766 Althea Street |
| 275 Birch Drive | 767 Althea Street |
| 277 Birch Drive | 768 Althea Street |
| 297 Birch Drive | 769 Althea Street |
| 301 Ash Street | 819 Azalea Drive |
| 306 Ash Street | 840 Azalea Drive |
| 310 Ash Street | 878 Cobia Drive |
| 313 Ash Street | 891 Cobia Drive |
| 315 Ash Street | 913 Barracuda Drive |
| 316 Ash Street | 916 Barracuda Drive |
| 319 Ash Street | 923 Wren Lane |
| 320 Ash Street | 1004 Bobwhite Drive |
| 321 Ash Street | 1022 Foxglove Street |
| 329 Ash Street | 1031 Foxglove Street |
| 332 Ash Street | 1061 Gardenia Drive |
| 333 Ash Street | 1064 Gardenia Drive |
| 341 Ash Street | 1067 Gardenia Drive |
| 347 Ash Street | 1077 Heather Street |
| 378 Aspen Street | 1081 Heather Street |
| 379 Aspen Street | 1101 Iris Lane |
| 382 Aspen Street | 1105 Iris Lane |
| 394 Acorn Street | 1142 Iris Lane |
| 400 Elderberry Drive | 1146 Iris Lane |
| 432 Elderberry Drive | 1218 Cardinal Lane |
| 436 Elderberry Drive | 1240 Dove Lane |
| 482 Laurel Bay Blvd | 1266 Dove Lane |
| 517 Laurel Bay Blvd | 1292 Eagle Lane |
| 586 Aster Street | 1299 Eagle Lane |
| 632 Dahlia Drive | 1302 Eagle Lane |
| 639 Dahlia Drive | 1336 Albatross Drive |
| 643 Dahlia Drive | 1351 Cardinal Lane |