SUMMARY REPORT
260 DAHLIA DRIVE (FORMERLY 603 DAHLIA DRIVE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0

Prepared for:

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

and

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

JUNE 2021

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Prepared by:

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

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

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List of Acronyms

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

1.0 INTRODUCTION

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

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

This report summarizes the results the environmental investigation activities associated with the storage of home heating oil and the potential release of petroleum constituents at the referenced property. Based on the results of the investigation, a No Further Action (NFA) determination has been made by the South Carolina Department of Health and Environmental Control (SCDHEC) for 260 Dahlia Drive (Formerly 603 Dahlia Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil USTs. The following information is included in this report:

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

1.1 Background Information

The LBMH area is located approximately 3.5 miles west of MCAS Beaufort. The area is approximately 970 acres in size and serves as an enlisted and officer family housing area. The area is configured with single family and duplex residential structures, and includes recreation, open space, and community facilities. The community includes approximately 1,300 housing units, including legacy Capehart style homes and newer duplex style homes. The housing area is bordered on the west by salt marshes and the Broad River, and to the north, east and south by uplands. Forested areas lie along the northern and northeastern borders.

Capehart style homes within the LBMH area were formerly heated using heating oil stored in USTs at each residence. There were 1,100 Capehart style housing units in the LBMH area. The newer duplex homes within the LBMH area never utilized heating oil tanks. Heating oil has not been used at Laurel Bay since the mid-1980s. As was the accepted practice at the time, USTs were drained, filled with dirt, capped, and left in place when they were removed from service. Residential USTs are not regulated in the State of South Carolina (i.e., there are no federal or state laws governing installation, management, or removal).

In 2007, MCAS Beaufort began a voluntary program to remove the unregulated, residential USTs and conduct sampling activities to determine if, and to what extent, petroleum constituents may have impacted the surrounding environment. MCAS Beaufort coordinated with SCDHEC to develop removal procedures that were consistent with procedural requirements for regulated USTs. All tank removal activities and follow-on actions are conducted in coordination with SCDHEC. To date, all known USTs have been removed from all residential properties within the LBMH area.

1.2 UST Removal and Assessment Process

During the UST removal process, a soil sample was collected from beneath the UST excavations (approximately 4 to 6 feet [ft] below ground surface [bgs]) and analyzed for a predetermined list of constituents of potential concern (COPCs) associated with the petroleum compounds found in home heating oil. These COPCs, derived from the *Quality Assurance Program Plan (QAPP) for the Underground Storage Tank Management Division, Revision 3.1* (SCDHEC, 2016) and the *Underground Storage Tank Assessment Instructions for Permanent Closure and Change-In-Service,* (SCDHEC, 2018), are as follows:

- benzene, toluene, ethylbenzene, and xylenes (BTEX),
- naphthalene, and
- five select polynuclear aromatic hydrocarbon (PAHs): benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and dibenz(a,h)anthracene.

Soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form. In accordance with SCDHEC's *QAPP for the UST Management Division* (SCDHEC, 2016), the soil screening levels consists of SCDHEC risk-based screening levels (RBSLs). It should be noted that the RBSLs for select PAHs were revised in Revision 2.0 of the QAPP (SCDHEC, 2013) and were revised again in Revision 3.0 (SCDHEC, 2015). The screening levels

used for evaluation at each site were those levels that were in effect at the time of reporting and review by SCDHEC.

The results of the soil sampling at each former UST location were used to determine if a potential for groundwater contamination exists (i.e., soil results greater than RBSLs) and subsequently to select properties for follow-up initial groundwater assessment (IGWA) sampling. The results of the IGWA sampling (if necessary) are used to determine the presence or absence of the aforementioned COPCs in groundwater and identify whether former UST locations will require additional delineation of COPCs in groundwater. In order to delineate the extent of impact to groundwater, permanent wells are installed and a sampling program is established for those former UST locations where IGWA sampling has indicated the presence of COPCs in excess of the SCDHEC RBSLs for groundwater. Groundwater analytical results are also compared to the site specific groundwater vapor intrusion screening levels (VISLs) to evaluate the potential for vapor intrusion and the necessity for an investigation associated with this media. A multi-media investigation selection process tree, applicable to the LBMH UST investigations, is presented as Appendix A.

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 260 Dahlia Drive (Formerly 603 Dahlia Drive). Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 603 Dahlia Drive* (MCAS Beaufort, 1999) and *SCDHEC UST Assessment Report – 603 Dahlia Drive* (MCAS Beaufort, 2013). The UST Assessment Reports are provided in Appendix B.

2.1 UST Removal and Soil Sampling

Two 280 gallon heating oil USTs were removed at 260 Dahlia Drive (Formerly 603 Dahlia Drive). Tank 1 was removed on September 9, 1999, from the front yard. Tank 2 was removed on May 16, 2013, from the concrete porch area. The UST locations are indicated in the figures of the UST Assessment Reports (Appendix B). The USTs were removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removals. According to the UST Assessment Reports (Appendix B), the depth to the bases of the USTs were not specified (Tank 1) and 6'0" (Tank 2) bgs and one sample was collected for each from that depth. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removal, a soil sample was collected from the base of each excavation and 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 reports are included in the UST Assessment Reports presented in Appendix B. The laboratory analytical data reports include the soil results for the additional PAHs that were analyzed, but do not have associated RBSLs.

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST locations (Tanks 1 and 2) were used by MCAS Beaufort, in consultation with SCDHEC, to determine a path forward (i.e., additional sampling or NFA) for the property. The soil results collected from the former UST locations (Tanks 1 and 2) at 260 Dahlia Drive (Formerly 603 Dahlia Drive) were less than the SCDHEC RBSLs, which indicated the subsurface was not impacted by COPCs associated with the former UST at concentrations that presented a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for soil, SCDHEC made the determination that NFA was required for 260 Dahlia Drive (Formerly 603 Dahlia Drive). This NFA determination was obtained in a letter dated December 14, 2016. SCDHEC's NFA letter is provided in Appendix C.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 1999. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 603 Dahlia Drive, Laurel Bay Military Housing Area*, September 1999.

Marine Corps Air Station Beaufort, 2013. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 603 Dahlia Drive, Laurel Bay Military Housing Area*, October 2013.

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

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

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

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

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

Table

Table 1
Laboratory Analytical Results - Soil
260 Dahlia Drive (Formerly 603 Dahlia Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Results Samples Collected 09/09/99 and 05/16/13	
		603 Dahlia -01 09/09/99	603 Dahlia -02 05/16/13
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)			
Benzene	0.003	ND	ND
Ethylbenzene	1.15	ND	ND
Naphthalene	0.036	ND	ND
Toluene	0.627	ND	ND
Xylenes, Total	13.01	ND	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)			
Benzo(a)anthracene	0.66	ND	ND
Benzo(b)fluoranthene	0.66	ND	**0.0907**
Benzo(k)fluoranthene	0.66	ND	ND
Chrysene	0.66	ND	**0.0391**
Dibenz(a,h)anthracene	0.66	ND	ND

Notes:

[1] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 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 - milligram per kilogram

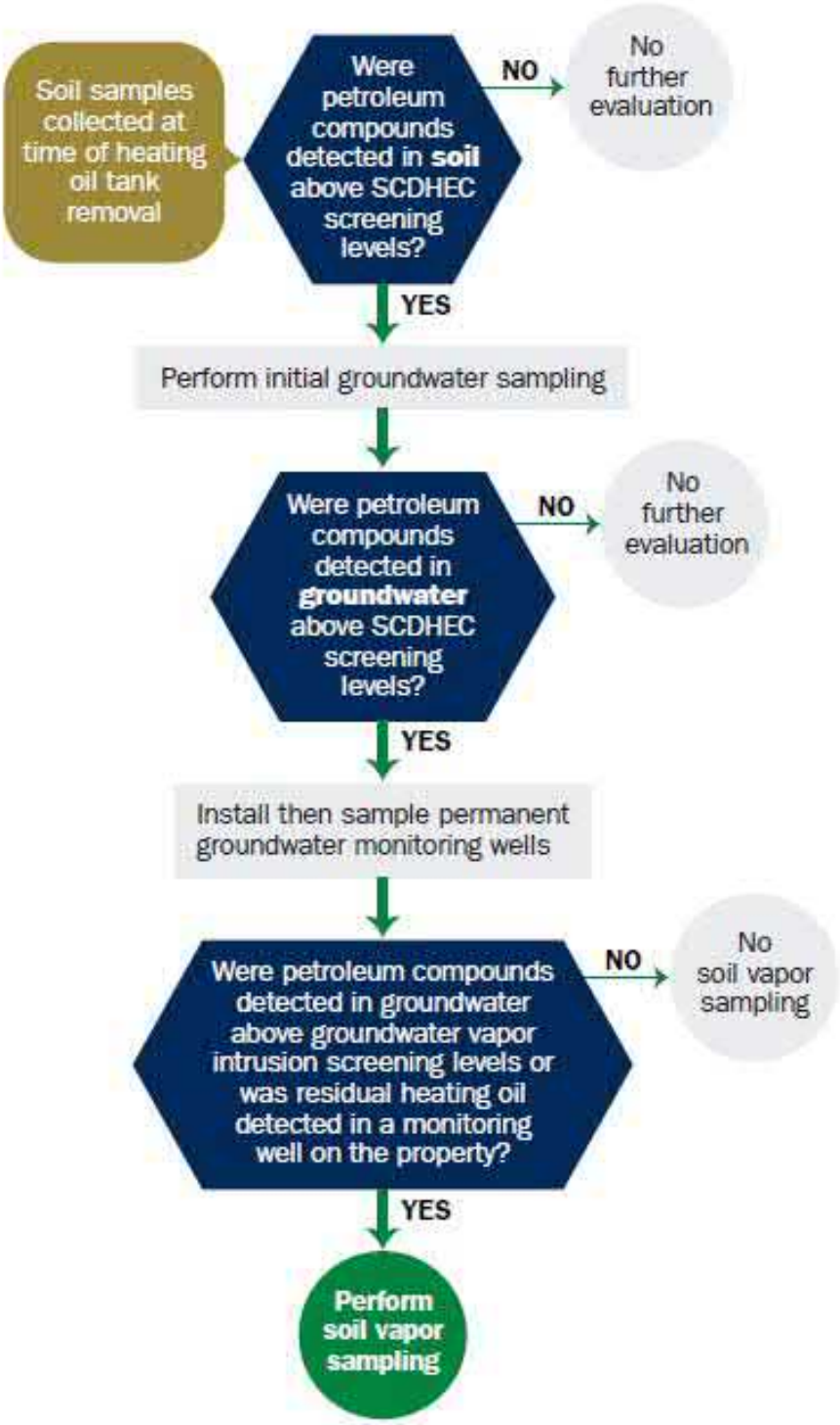
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). The laboratory report is provided in Appendix B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Reports

CDM - AECOM
Multimedia Joint Venture

M60169.AR.001850
MCAS BEAUFORT
5090.3a

TRANSMITTAL LETTER AND LABORATORY DATA FOR HEATING OIL UNDERGROUND STORAGE TANK REMOVAL AT 603 DAHLIA DRIVE LAUREL BAY MILITARY HOUSING MCAS BEAUFORT SC
4/20/2009
MCAS BEAUFORT

UNITED STATES MARINE CORPS
MARINE CORPS AIR STATION
BEAUFORT, SOUTH CAROLINA 29904-5001

IN REPLY REFER TO
5900
NREAO/057
April 20, 2009

SCDHEC-BLWM
Attn: Ms. Jan T. Cooke
2600 Bull Street
Columbia, South Carolina 29201

Dear Ms. Cooke:

Subject: Heating Oil UST Removal Laboratory Data for Laurel Bay Military Housing, Marine Corps Air Station (MCAS) Beaufort, South Carolina

Enclosed are laboratory results for heating oil UST removals at 6 homes located in Laurel Bay Military Housing, MCAS Beaufort. The addresses for the homes included in this package are: 345 Ash, 378 Aspen, 603 Dahlia, 768 Althea, 110 Althea, and 772 Althea. Limited information is available for these tank removals as they occurred in 1999. The only information available is laboratory data and general locations of the tanks removed. One discrepancy is the report for 770 Althea. A fax that lists these tank removals indicates that 2 tanks were removed at 764 Althea and hand writing on the fax suggests that the actual address may be 766 Althea. We believe the actual house the fax and laboratory reports are referring to is 770 Althea. Three tanks were removed at 766 Althea in 1999 that required a period of ground water monitoring (SCDHEC ID# 01439). A no further action decision was rendered for the site by SCDHEC in a letter dated October 10, 2003. In addition, in the 2006 tank removal event, no tank was discovered at 770 Althea; however a tank was found and removed at 764 Althea (SCHEC ID# 03748). Again, based on this information, we believe that the actual house the enclosed fax and laboratory report is referring to is 770 Althea.

One soil sample was submitted from each tank pulled and analyzed for volatile organic compounds (VOCs) by method 8260 and for semi-volatile organic compounds by method 8270. No petroleum compounds were detected in any of the soil samples. Methylene chloride was detected in all of the samples at nearly identical levels. Given the similar levels detected and the

common occurrence of methylene chloride as a laboratory contaminant, we believe the methylene chloride detected in the soil samples is the result of laboratory contamination.

If you have any questions regarding this information please contact Craig Ehde at 843-228-7317 or craig.ehde@usmc.mil.

Sincerely,

William A Drawdy
Natural Resources and
Environmental Affairs Officer
By Direction of the
Commanding Officer

Enclosure: Assessment Reports for the following residences: 345 Ash, 378 Aspen, 603 Dahlia, 768 Althea, 110 Althea, and 772 Althea.

Cc: Mr. Russell Berry, EQC Low Country District (w/o enclosures)

• RAY JAMES
ROICC INSPECTOR

R & G CONSTRUCTION CO.
MCAS Field Office
584 Kimes Avenue
P.O. Box 9191
Beaufort, SC 29904-9191

(843) 521-9773 Phone (843) 521-9115 Fax

BILL DENNIS

facsimile transmittal

To: Jim Reeves **Fax:** 522-7032

From: Beth **Date:** Tuesday, June 22, 1999

Re: Locations of tanks **Pages:** 1 including cover

REF:

Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☑ For Your Info

COMMENTS:

Following are locations where tanks have been removed:

603 Dahlia ✓

378 Aspen ✓

345 Ash ✓

768 Althea ✓

772 Althea ✓

* 764 Althea (2 tanks removed)

?

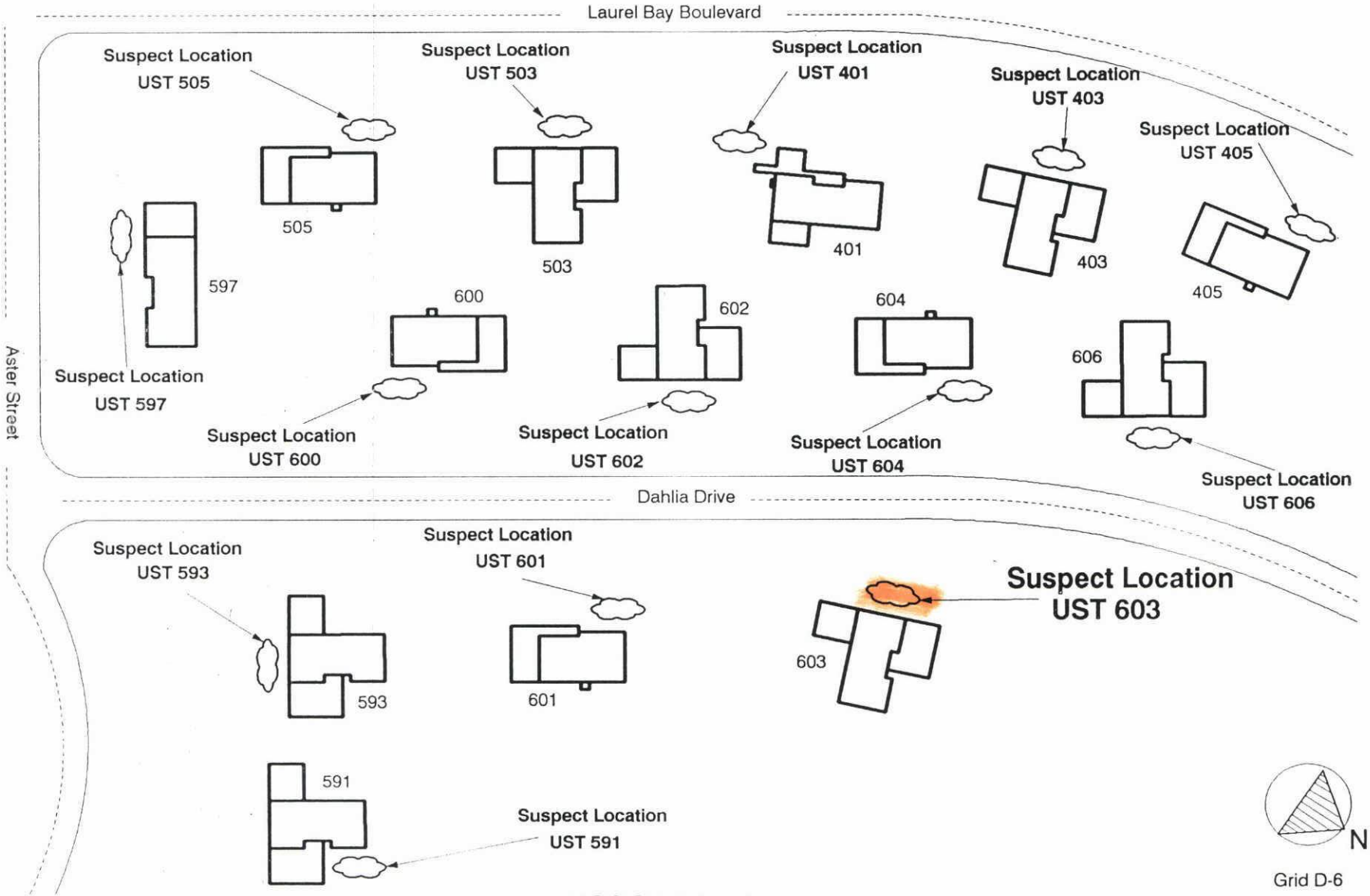
* 766 Althea Final Release

USTs removed

* Per Mary Ellen Smith – More than 1 UST may be at same house – possibly up to 4 !!

CONFIDENTIAL

MCAS Beaufort
Laurel Bay Housing Area
UST 603



Grid D-6

EG&G Idaho, Inc.

Site sketches are schematic representations indicating approximate locations and orientations.

SPECIALIZED ASSAYS, INC
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

603 DAHLIA @ LBAY

USACE-SAVANNAH DISTRICT 8995
MARK HARVISON
100 WEST OGLETHORPE AVE
SAVANNAH, GA 31402

Project: D0208
Project Name: LAUREL BAY UST
Sampler: J. SMITH

Lab Number: 99-A138228
Sample ID: 603 UST
Sample Type: Soil
Site ID:

Date Collected: 9/ 9/99
Time Collected: 16:40
Date Received: 9/10/99
Time Received: 8:30

Analyte	Result	Units	Report Limit	Run Limit	Dil Factor	Date	Time	Analyst	Method	Batch
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Acenaphthylene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Anthracene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Benzo(a)anthracene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Benzo(a)pyrene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Benzo(b)fluoranthene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Benzo(g,h,i)perylene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Benzo(k)fluoranthene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
4-Bromophenylphenylether	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Butylbenzylphthalate	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Carbazole	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
4-Chloro-3-methylphenol	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
4-Chloroaniline	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
bis(2-Chloroethoxy)methane	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
bis(2-Chloroethyl)ether	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
bis(2-Chloroisopropyl)ether	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
2-Chloronaphthalene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
2-Chlorophenol	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
4-Chlorophenylphenylether	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Chrysene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Dibenzofuran	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Dibenz(a,h)anthracene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
1,2-Dichlorobenzene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
1,3-Dichlorobenzene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
1,4-Dichlorobenzene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
3,3'-Dichlorobenzidine	ND	mg/kg	0.717	0.660	1	9/17/99	13:20	M.Goodrich	8270C	4973
2,4-Dichlorophenol	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Diethylphthalate	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
2,4-Dimethylphenol	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Dimethylphthalate	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Di-n-butylphthalate	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
4,6-Dinitro-2-methylphenol	ND	mg/kg	0.897	0.825	1	9/17/99	13:20	M.Goodrich	8270C	4973
2,4-Dinitrophenol	ND	mg/kg	0.897	0.825	1	9/17/99	13:20	M.Goodrich	8270C	4973
2,4-dinitrotoluene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
2,6-Dinitrotoluene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973

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Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A138228
Sample ID: 603 UST

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Di-n-octylphthalate	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Fluoranthene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Fluorene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Hexachlorobenzene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Hexachlorobutadiene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Hexachlorocyclopentadiene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Hexachloroethane	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Isophorone	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
2-Methylnaphthalene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
2-Methylphenol	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
m,p-Methylphenol	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Naphthalene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
2-Nitroaniline	ND	mg/kg	0.897	0.825	1	9/17/99	13:20	M.Goodrich	8270C	4973
3-Nitroaniline	ND	mg/kg	0.897	0.825	1	9/17/99	13:20	M.Goodrich	8270C	4973
4-Nitroaniline	ND	mg/kg	0.897	0.825	1	9/17/99	13:20	M.Goodrich	8270C	4973
Nitrobenzene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
2-Nitrophenol	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
4-Nitrophenol	ND	mg/kg	0.897	0.825	1	9/17/99	13:20	M.Goodrich	8270C	4973
N-nitrosodi-n-propylamine	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
N-nitrosodiphenylamine	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Pentachlorophenol	ND	mg/kg	0.897	0.825	1	9/17/99	13:20	M.Goodrich	8270C	4973
Phenanthrene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Phenol	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Pyrene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
Bis(2-ethylhexyl)phthalate	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
1,2,4-Trichlorobenzene	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
2,4,5-Trichlorophenol	ND	mg/kg	0.897	0.825	1	9/17/99	13:20	M.Goodrich	8270C	4973
2,4,6-Trichlorophenol	ND	mg/kg	0.359	0.330	1	9/17/99	13:20	M.Goodrich	8270C	4973
VOLATILE ORGANICS										
Acetone	0.0166	mg/kg	0.0107	0.0098	1	9/12/99	1:53	M.Cathey	8260B	5553
Acrolein	ND	mg/kg	0.0107	0.0098	1	9/12/99	1:53	M.Cathey	8260B	5553
Acrylonitrile	ND	mg/kg	0.0107	0.0098	1	9/12/99	1:53	M.Cathey	8260B	5553
Benzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Bromobenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Bromochloromethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Bromoform	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Bromomethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
2-Butanone	ND	mg/kg	0.0107	0.0098	1	9/12/99	1:53	M.Cathey	8260B	5553
n-Butylbenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
sec-Butylbenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
t-Butylbenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Carbon disulfide	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553

SPECIALIZED ASSAYS, IN
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A138228
Sample ID: 603 UST

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Carbon tetrachloride	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Chlorobenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Chloroethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
2-Chloroethylvinylether	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Chloroform	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Chloromethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
2-Chlorotoluene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
4-Chlorotoluene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0107	0.0098	1	9/12/99	1:53	M.Cathey	8260B	5553
Dibromochloromethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,2-Dibromoethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Dibromomethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,4-Dichloro-2-butene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,2-Dichlorobenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,3-Dichlorobenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,4-Dichlorobenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Dichlorodifluoromethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,1-Dichloroethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,2-Dichloroethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,1-Dichloroethene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
cis-1,2-Dichloroethene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
trans-1,2-Dichloroethene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,2-Dichloropropane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,3-Dichloropropane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
2,2-Dichloropropane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,1-Dichloropropene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
cis-1,3-Dichloropropene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
trans-1,3-Dichloropropene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Ethylbenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Hexachlorobutadiene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
2-Hexanone	ND	mg/kg	0.0107	0.0098	1	9/12/99	1:53	M.Cathey	8260B	5553
Iodomethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Isopropylbenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
4-Isopropyltoluene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Methyl methacrylate	ND	mg/kg	0.0107	0.0098	1	9/12/99	1:53	M.Cathey	8260B	5553
4-Methyl-2-pentanone	ND	mg/kg	0.0107	0.0098	1	9/12/99	1:53	M.Cathey	8260B	5553
Methylene chloride	0.0182	mg/kg	0.0107	0.0098	1	9/12/99	1:53	M.Cathey	8260B	5553
Naphthalene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
n-Propylbenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Styrene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Tetrachloroethene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Toluene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A138228
Sample ID: 603 UST

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2,3-Trichlorobenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,2,4-Trichlorobenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,1,1-Trichloroethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,1,2-Trichloroethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Trichloroethene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,2,3-Trichloropropane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,2,4-Trimethylbenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
1,3,5-Trimethylbenzene	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Vinyl acetate	ND	mg/kg	0.0107	0.0098	1	9/12/99	1:53	M.Cathey	8260B	5553
Vinyl chloride	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Xylenes	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Bromodichloromethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Trichlorofluoromethane	ND	mg/kg	0.0021	0.0020	1	9/12/99	1:53	M.Cathey	8260B	5553
Methyl-t-butyl ether	ND	mg/kg	0.0107	0.0050	1	9/12/99	1:53	M.Cathey	8260B	5553
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	92.	%			1	9/16/99	11:00	A.Bufalino	CLP	1506

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
DRO's	29.7 gm	1.0 ml	9/15/99	M. Cauthen	3550
Volatile Organics	5.1 g	5.0 ml	9/10/99	M.Hinelick	5035

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	110.	48. - 160.
surr-Toluene d8	106.	79. - 119.
surr-4-Bromofluorobenzene	112.	69. - 135.
surr-Dibromofluoromethane	121.	63. - 135.
surr-Nitrobenzene-d5	52.	20. - 110.
surr-2-Fluorobiphenyl	54.	18. - 110.
surr-Terphenyl d14	73.	27. - 128.
surr-Phenol d5	72.	10. - 111.
surr-2-Fluorophenol	62.	10. - 107.
surr-2,4,6-Tribromophenol	70.	14. - 110.

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report

Date Received

State Use Only

RECEIVED

OCT 2 3 2013

SC DHEC - Bureau of Land & Waste Management

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

I. OWNERSHIP OF UST (S)

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

P.O. Box 55001
Mailing Address

Beaufort,	South Carolina	29904-5001
City	State	Zip Code

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

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #

Laurel Bay Military Housing Area, Marine Corps Air Station, Beaufort, SC
Facility Name or Company Site Identifier

603 Dahlia Drive, 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).....	603Dahlia				
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.....	5/16/2013				
L.	Visible Holes Y/N.....	Yes				
		Yes				

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 603Dahlia 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 603Dahlia 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

	603Dahlia				
A. Construction Material..(ex. Steel, FRP).....	Steel & Copper				
B. Distance from UST to Dispenser.....	N/A				
C. Number of Dispensers.....	N/A				
D. Type of System Pressure or Suction.....	Suction				
E. Was Piping Removed from the Ground? Y/N	No				
F. Visible Corrosion or Pitting Y/N.....	Yes				
G. Visible Holes Y/N.....	No				
H. Age.....	Late 1950s				

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

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

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

IX. SITE CONDITIONS

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

X. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number 84009

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
603 Dahlia	Excav at fill end	Soil	Sandy	6'	5/16/13 1415 hrs	P. Shaw	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

XI. SAMPLING METHODOLOGY

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

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

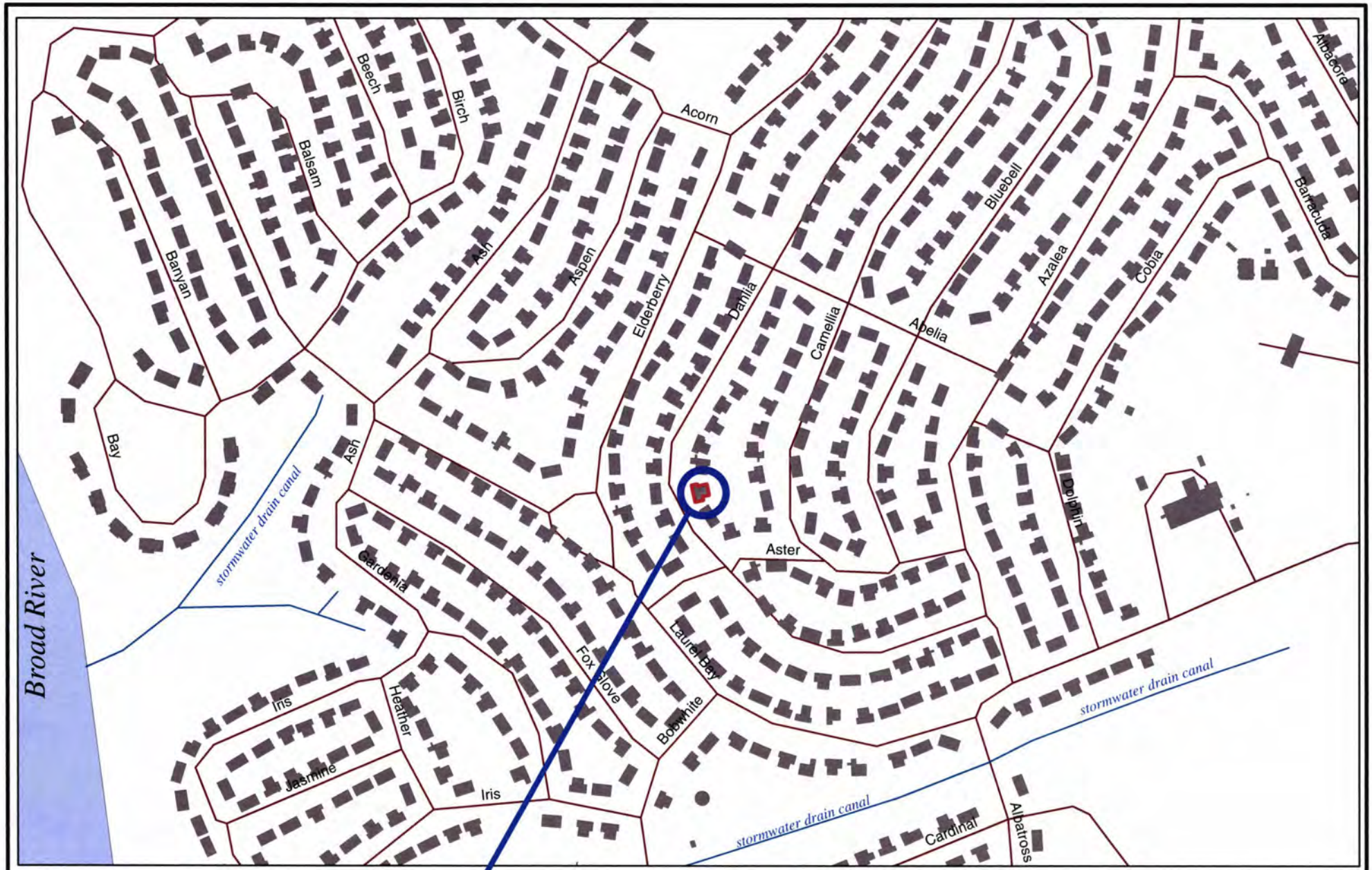
XII. RECEPTORS

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

XIII. SITE MAP

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

(Attach Site Map Here)

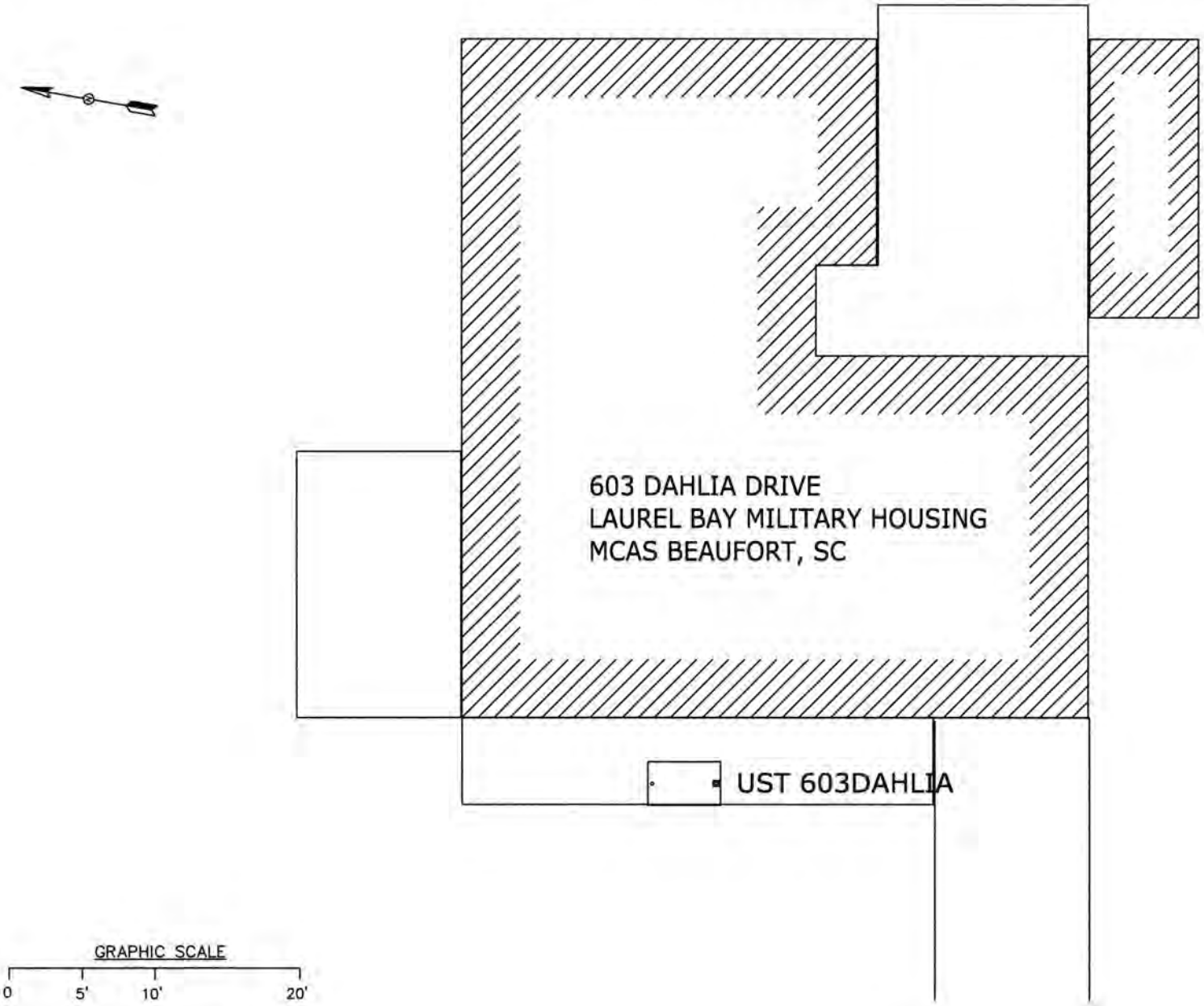


SBG-EEG, Inc.
7301 Rivers Ave., Suite 245
N. Charleston SC 29406-9643
Ph. (843) 573-7140

Drawn By: L. DiAsio

Dwg Date: June 2013

FIGURE 1: LOCATION MAP
603 DAHLIA DRIVE
LAUREL BAY, BEAUFORT SC



GRAPHIC SCALE

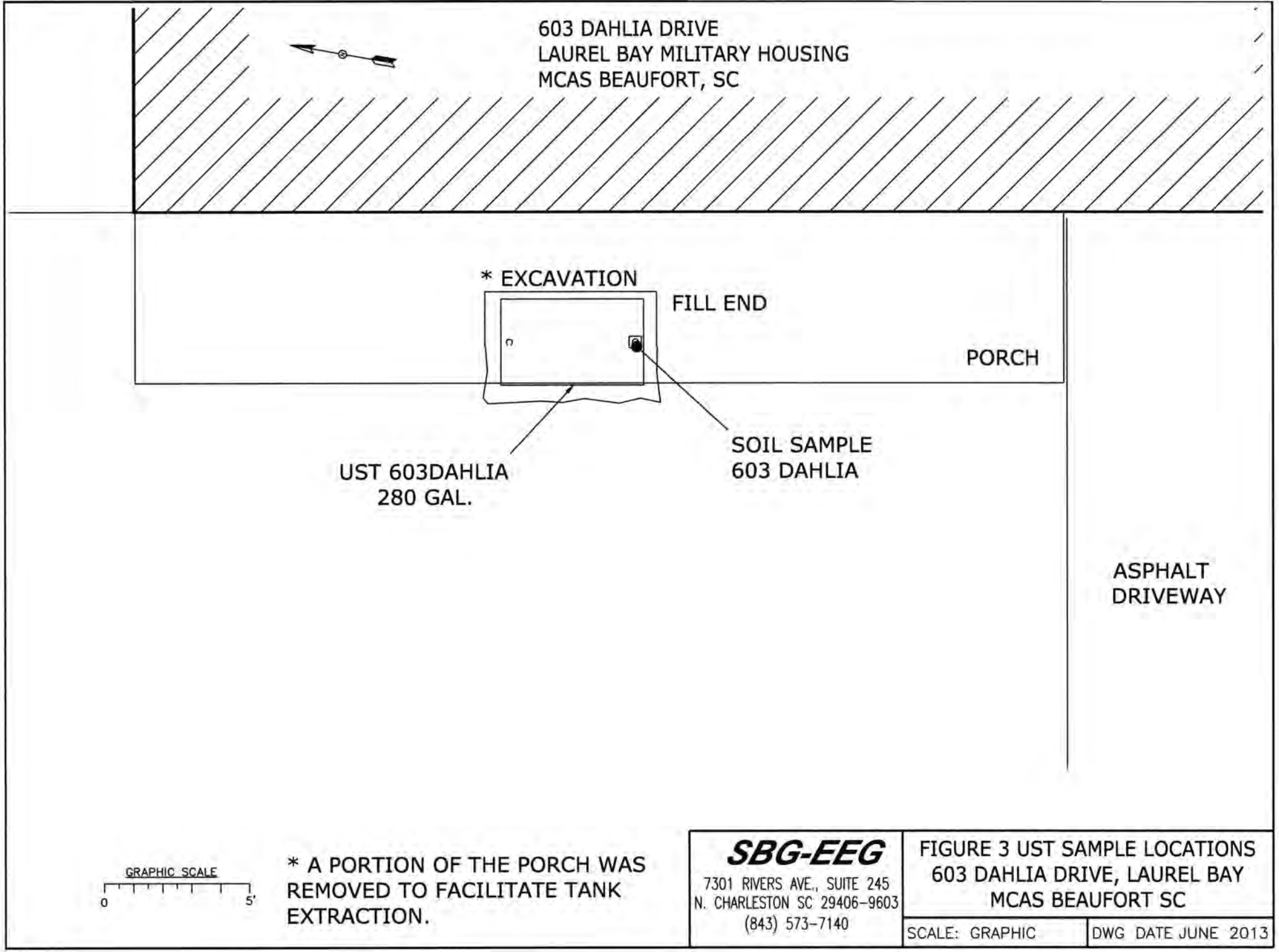
0 5' 10' 20'

TANK DEPTH BELOW GRADE
603DAHLIA = 36"

SBG-EEG
7301 RIVERS AVE., SUITE 245
N. CHARLESTON SC 29406-9603
(843) 573-7140

FIGURE 2 SITE MAP
603 DAHLIA DRIVE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE JUNE 2013



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

SBG-EEG
7301 RIVERS AVE., SUITE 245
N. CHARLESTON SC 29406-9603
(843) 573-7140

FIGURE 3 UST SAMPLE LOCATIONS
603 DAHLIA DRIVE, LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE JUNE 2013

Picture 1: Location of UST 603Dahlia.

Picture 2: UST 603Dahlia excavation in progress.

Picture 3: UST 603Dahlia excavation.

Picture 4: UST 603Dahlia excavation.

XIV. SUMMARY OF ANALYSIS RESULTS

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

CoC UST	603Dahlia						
Benzene	ND						
Toluene	ND						
Ethylbenzene	ND						
Xylenes	ND						
Naphthalene	ND						
Benzo (a) anthracene	ND						
Benzo (b) fluoranthene	0.0907 mg/kg						
Benzo (k) fluoranthene	ND						
Chrysene	0.0391 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 Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-27307-1
Client Project/Site: Laurel Bay Site

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

Attn: Tom McElwee

Authorized for release by:
6/6/2013 3:03:49 PM

Ken Hayes, Project Manager I
ken.hayes@testamericainc.com

Table of Contents

Sample Summary

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

TestAmerica Job ID: 490-27307-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-27307-1	1464 Cardinal	Solid	05/14/13 15:15	05/23/13 08:30
490-27307-2	1403 Eagle	Solid	05/15/13 15:00	05/23/13 08:30
490-27307-3	603 Dahlia	Solid	05/16/13 14:15	05/23/13 08:30

Case Narrative

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

TestAmerica Job ID: 490-27307-1

Job ID: 490-27307-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-27307-1

Comments
No additional comments.

Receipt
The samples were received on 5/23/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8° C.

GC/MS VOA
Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): 1403 Eagle (490-27307-2).

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 1403 Eagle (490-27307-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: 1403 Eagle (490-27307-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270C, 8270D: The matrix spike duplicate (MSD) percent recoveries and %RPD for batch 81594 were outside control limits for Naphthalene. This is attributed to matrix interferences. The laboratory control sample (LCS) was within control limits, so re-extraction and re-analysis was not needed.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Definitions/Glossary

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

TestAmerica Job ID: 490-27307-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Glossary

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

Client Sample ID: 1464 Cardinal

Date Collected: 05/14/13 15:15
Date Received: 05/23/13 08:30

Lab Sample ID: 490-27307-1

Matrix: Solid
Percent Solids: 85.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00222	0.000744	mg/Kg	☼	05/23/13 17:00	05/28/13 15:21	1
Ethylbenzene	ND		0.00222	0.000744	mg/Kg	☼	05/23/13 17:00	05/28/13 15:21	1
Naphthalene	ND		0.00555	0.00189	mg/Kg	☼	05/23/13 17:00	05/28/13 15:21	1
Toluene	ND		0.00222	0.000822	mg/Kg	☼	05/23/13 17:00	05/28/13 15:21	1
Xylenes, Total	ND		0.00555	0.000744	mg/Kg	☼	05/23/13 17:00	05/28/13 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*	*05/23/13 17:00*	*05/28/13 15:21*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/23/13 17:00*	*05/28/13 15:21*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*	*05/23/13 17:00*	*05/28/13 15:21*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*05/23/13 17:00*	*05/28/13 15:21*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0766	0.0114	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Acenaphthylene	ND		0.0766	0.0103	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Anthracene	ND		0.0766	0.0103	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Benzo[a]anthracene	ND		0.0766	0.0172	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Benzo[a]pyrene	ND		0.0766	0.0137	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Benzo[b]fluoranthene	ND		0.0766	0.0137	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Benzo[g,h,i]perylene	ND		0.0766	0.0103	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Benzo[k]fluoranthene	ND		0.0766	0.0160	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
1-Methylnaphthalene	ND		0.0766	0.0160	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Pyrene	ND		0.0766	0.0137	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Phenanthrene	ND		0.0766	0.0103	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Chrysene	ND		0.0766	0.0103	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Dibenz(a,h)anthracene	ND		0.0766	0.00801	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Fluoranthene	ND		0.0766	0.0103	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Fluorene	ND		0.0766	0.0137	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0766	0.0114	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
Naphthalene	ND		0.0766	0.0103	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1
2-Methylnaphthalene	ND		0.0766	0.0183	mg/Kg	☼	05/24/13 06:55	05/25/13 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*29 - 120*	*05/24/13 06:55*	*05/25/13 03:46*	*1*
Terphenyl-d14 (Surr)	*101*		*13 - 120*	*05/24/13 06:55*	*05/25/13 03:46*	*1*
Nitrobenzene-d5 (Surr)	*84*		*27 - 120*	*05/24/13 06:55*	*05/25/13 03:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	86		0.10	0.10	%			05/24/13 08:49	1

Client Sample ID: 1403 Eagle

Date Collected: 05/15/13 15:00
Date Received: 05/23/13 08:30

Lab Sample ID: 490-27307-2

Matrix: Solid
Percent Solids: 74.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00237	0.000795	mg/Kg	☼	05/23/13 17:00	05/28/13 16:15	1
Ethylbenzene	0.00748		0.00237	0.000795	mg/Kg	☼	05/23/13 17:00	05/28/13 16:15	1
Naphthalene	ND		0.476	0.162	mg/Kg	☼	05/23/13 16:56	05/28/13 16:42	1
Toluene	0.00164	J	0.00237	0.000879	mg/Kg	☼	05/23/13 17:00	05/28/13 16:15	1
Xylenes, Total	0.0319		0.00594	0.000795	mg/Kg	☼	05/23/13 17:00	05/28/13 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*05/23/13 17:00*	*05/28/13 16:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*	*05/23/13 16:56*	*05/28/13 16:42*	*1*
4-Bromofluorobenzene (Surr)	*176*	*X*	*70 - 130*	*05/23/13 17:00*	*05/28/13 16:15*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/23/13 16:56*	*05/28/13 16:42*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*	*05/23/13 17:00*	*05/28/13 16:15*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*	*05/23/13 16:56*	*05/28/13 16:42*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*	*05/23/13 17:00*	*05/28/13 16:15*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*	*05/23/13 16:56*	*05/28/13 16:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.639		0.0887	0.0132	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Acenaphthylene	ND		0.0887	0.0119	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Anthracene	0.139		0.0887	0.0119	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Benzo[a]anthracene	0.116		0.0887	0.0199	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Benzo[a]pyrene	0.0795	J	0.0887	0.0159	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Benzo[b]fluoranthene	0.149		0.0887	0.0159	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Benzo[g,h,i]perylene	ND		0.0887	0.0119	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Benzo[k]fluoranthene	0.0644	J	0.0887	0.0185	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
1-Methylnaphthalene	2.60		0.0887	0.0185	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Pyrene	1.42		0.0887	0.0159	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Phenanthrene	0.434		0.0887	0.0119	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Chrysene	0.205		0.0887	0.0119	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Dibenz(a,h)anthracene	ND		0.0887	0.00927	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Fluoranthene	0.401		0.0887	0.0119	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Fluorene	1.08		0.0887	0.0159	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Indeno[1,2,3-cd]pyrene	ND		0.0887	0.0132	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
Naphthalene	ND		0.0887	0.0119	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1
2-Methylnaphthalene	1.07		0.0887	0.0212	mg/Kg	☼	05/24/13 06:55	05/25/13 04:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*29 - 120*	*05/24/13 06:55*	*05/25/13 04:09*	*1*
Terphenyl-d14 (Surr)	*108*		*13 - 120*	*05/24/13 06:55*	*05/25/13 04:09*	*1*
Nitrobenzene-d5 (Surr)	*82*		*27 - 120*	*05/24/13 06:55*	*05/25/13 04:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75		0.10	0.10	%			05/24/13 08:49	1

Client Sample ID: 603 Dahlia
Date Collected: 05/16/13 14:15
Date Received: 05/23/13 08:30

Lab Sample ID: 490-27307-3
Matrix: Solid
Percent Solids: 94.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00223	0.000748	mg/Kg	☼	05/23/13 17:00	05/28/13 15:48	1
Ethylbenzene	ND		0.00223	0.000748	mg/Kg	☼	05/23/13 17:00	05/28/13 15:48	1
Naphthalene	ND		0.00558	0.00190	mg/Kg	☼	05/23/13 17:00	05/28/13 15:48	1
Toluene	ND		0.00223	0.000827	mg/Kg	☼	05/23/13 17:00	05/28/13 15:48	1
Xylenes, Total	ND		0.00558	0.000748	mg/Kg	☼	05/23/13 17:00	05/28/13 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*	*05/23/13 17:00*	*05/28/13 15:48*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/23/13 17:00*	*05/28/13 15:48*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*	*05/23/13 17:00*	*05/28/13 15:48*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*05/23/13 17:00*	*05/28/13 15:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0696	0.0104	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Acenaphthylene	ND		0.0696	0.00934	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Anthracene	ND		0.0696	0.00934	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Benzo[a]anthracene	ND		0.0696	0.0156	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Benzo[a]pyrene	**0.200**		0.0696	0.0125	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Benzo[b]fluoranthene	**0.0907**		0.0696	0.0125	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Benzo[g,h,i]perylene	**0.0823**		0.0696	0.00934	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Benzo[k]fluoranthene	ND		0.0696	0.0145	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
1-Methylnaphthalene	ND		0.0696	0.0145	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Pyrene	**0.0797**		0.0696	0.0125	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Phenanthrene	ND		0.0696	0.00934	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Chrysene	**0.0391**	J	0.0696	0.00934	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Dibenz(a,h)anthracene	ND		0.0696	0.00727	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Fluoranthene	ND		0.0696	0.00934	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Fluorene	ND		0.0696	0.0125	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Indeno[1,2,3-cd]pyrene	**0.0741**		0.0696	0.0104	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
Naphthalene	ND		0.0696	0.00934	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1
2-Methylnaphthalene	ND		0.0696	0.0166	mg/Kg	☼	05/24/13 06:55	05/25/13 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*29 - 120*	*05/24/13 06:55*	*05/25/13 02:37*	*1*
Terphenyl-d14 (Surr)	*97*		*13 - 120*	*05/24/13 06:55*	*05/25/13 02:37*	*1*
Nitrobenzene-d5 (Surr)	*79*		*27 - 120*	*05/24/13 06:55*	*05/25/13 02:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**95**		0.10	0.10	%			05/24/13 08:49	1

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

Lab Sample ID: 490-27047-C-4-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 82155 — **Prep Batch: 80593**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0586	0.05736		mg/Kg	☼	98	31 - 143
Ethylbenzene	ND		0.0586	0.05871		mg/Kg	☼	100	23 - 161
Naphthalene	ND		0.0586	0.04106		mg/Kg	☼	70	10 - 176
Toluene	ND		0.0586	0.05816		mg/Kg	☼	99	30 - 155
Xylenes, Total	ND		0.176	0.1759		mg/Kg	☼	100	25 - 162

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

Lab Sample ID: 490-27047-C-4-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 82155 — **Prep Batch: 80593**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0737	0.06470		mg/Kg	☼	88	31 - 143	12	50
Ethylbenzene	ND		0.0737	0.06423		mg/Kg	☼	87	23 - 161	9	50
Naphthalene	ND		0.0737	0.04632		mg/Kg	☼	63	10 - 176	12	50
Toluene	ND		0.0737	0.06547		mg/Kg	☼	89	30 - 155	12	50
Xylenes, Total	ND		0.221	0.1910		mg/Kg	☼	86	25 - 162	8	50

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

Lab Sample ID: MB 490-82155/6 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 82155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.100	0.0335	mg/Kg			05/28/13 12:32	1
Ethylbenzene	ND		0.100	0.0335	mg/Kg			05/28/13 12:32	1
Naphthalene	ND		0.250	0.0850	mg/Kg			05/28/13 12:32	1
Toluene	ND		0.100	0.0370	mg/Kg			05/28/13 12:32	1
Xylenes, Total	ND		0.250	0.0335	mg/Kg			05/28/13 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*05/28/13 12:32*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*05/28/13 12:32*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*05/28/13 12:32*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*05/28/13 12:32*	*1*

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

Lab Sample ID: MB 490-82155/7
Matrix: Solid
Analysis Batch: 82155

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200	0.000670	mg/Kg			05/28/13 12:59	1
Ethylbenzene	ND		0.00200	0.000670	mg/Kg			05/28/13 12:59	1
Naphthalene	ND		0.00500	0.00170	mg/Kg			05/28/13 12:59	1
Toluene	ND		0.00200	0.000740	mg/Kg			05/28/13 12:59	1
Xylenes, Total	ND		0.00500	0.000670	mg/Kg			05/28/13 12:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*05/28/13 12:59*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*05/28/13 12:59*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*05/28/13 12:59*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/28/13 12:59*	*1*

Lab Sample ID: LCS 490-82155/3
Matrix: Solid
Analysis Batch: 82155

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04954		mg/Kg		99	75 - 127
Ethylbenzene	0.0500	0.05202		mg/Kg		104	80 - 134
Naphthalene	0.0500	0.05264		mg/Kg		105	69 - 150
Toluene	0.0500	0.05154		mg/Kg		103	80 - 132
Xylenes, Total	0.150	0.1569		mg/Kg		105	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 490-82155/4
Matrix: Solid
Analysis Batch: 82155

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04671		mg/Kg		93	75 - 127	6	50
Ethylbenzene	0.0500	0.04886		mg/Kg		98	80 - 134	6	50
Naphthalene	0.0500	0.05059		mg/Kg		101	69 - 150	4	50
Toluene	0.0500	0.04893		mg/Kg		98	80 - 132	5	50
Xylenes, Total	0.150	0.1485		mg/Kg		99	80 - 137	6	50

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

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

Lab Sample ID: MB 490-81594/1-A
Matrix: Solid
Analysis Batch: 81747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Anthracene	ND		0.0670	0.00900	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Pyrene	ND		0.0670	0.0120	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Chrysene	ND		0.0670	0.00900	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Fluorene	ND		0.0670	0.0120	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		05/24/13 06:55	05/25/13 02:14	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		05/24/13 06:55	05/25/13 02:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*29 - 120*	*05/24/13 06:55*	*05/25/13 02:14*	*1*
Terphenyl-d14 (Surr)	*106*		*13 - 120*	*05/24/13 06:55*	*05/25/13 02:14*	*1*
Nitrobenzene-d5 (Surr)	*84*		*27 - 120*	*05/24/13 06:55*	*05/25/13 02:14*	*1*

Lab Sample ID: LCS 490-81594/2-A
Matrix: Solid
Analysis Batch: 81747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81594

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	1.67	1.535		mg/Kg		92	38 - 120
Anthracene	1.67	1.556		mg/Kg		93	46 - 124
Benzo[a]anthracene	1.67	1.470		mg/Kg		88	45 - 120
Benzo[a]pyrene	1.67	1.515		mg/Kg		91	45 - 120
Benzo[b]fluoranthene	1.67	1.597		mg/Kg		96	42 - 120
Benzo[g,h,i]perylene	1.67	1.511		mg/Kg		91	38 - 120
Benzo[k]fluoranthene	1.67	1.391		mg/Kg		83	42 - 120
1-Methylnaphthalene	1.67	1.300		mg/Kg		78	32 - 120
Pyrene	1.67	1.512		mg/Kg		91	43 - 120
Phenanthrene	1.67	1.460		mg/Kg		88	45 - 120
Chrysene	1.67	1.455		mg/Kg		87	43 - 120
Dibenz(a,h)anthracene	1.67	1.524		mg/Kg		91	32 - 128
Fluoranthene	1.67	1.549		mg/Kg		93	46 - 120
Fluorene	1.67	1.468		mg/Kg		88	42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.511		mg/Kg		91	41 - 121
Naphthalene	1.67	1.226		mg/Kg		74	32 - 120
2-Methylnaphthalene	1.67	1.279		mg/Kg		77	28 - 120

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

Lab Sample ID: LCS 490-81594/2-A
Matrix: Solid
Analysis Batch: 81747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81594

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	81		29 - 120
Terphenyl-d14 (Surr)	100		13 - 120
Nitrobenzene-d5 (Surr)	78		27 - 120

Lab Sample ID: 490-27307-3 MS
Matrix: Solid
Analysis Batch: 81747

Client Sample ID: 603 Dahlia
Prep Type: Total/NA
Prep Batch: 81594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	ND		1.76	1.360		mg/Kg	☼	77	25 - 120
Anthracene	ND		1.76	1.384		mg/Kg	☼	79	28 - 125
Benzo[a]anthracene	ND		1.76	1.306		mg/Kg	☼	74	23 - 120
Benzo[a]pyrene	0.200		1.76	1.343		mg/Kg	☼	65	15 - 128
Benzo[b]fluoranthene	0.0907		1.76	1.430		mg/Kg	☼	76	12 - 133
Benzo[g,h,i]perylene	0.0823		1.76	1.356		mg/Kg	☼	73	22 - 120
Benzo[k]fluoranthene	ND		1.76	1.254		mg/Kg	☼	71	28 - 120
1-Methylnaphthalene	ND		1.76	1.138		mg/Kg	☼	65	10 - 120
Pyrene	0.0797		1.76	1.445		mg/Kg	☼	78	20 - 123
Phenanthrene	ND		1.76	1.301		mg/Kg	☼	74	21 - 122
Chrysene	0.0391	J	1.76	1.283		mg/Kg	☼	71	20 - 120
Dibenz(a,h)anthracene	ND		1.76	1.347		mg/Kg	☼	77	12 - 128
Fluoranthene	ND		1.76	1.378		mg/Kg	☼	78	10 - 143
Fluorene	ND		1.76	1.293		mg/Kg	☼	74	20 - 120
Indeno[1,2,3-cd]pyrene	0.0741		1.76	1.338		mg/Kg	☼	72	22 - 121
Naphthalene	ND		1.76	1.116		mg/Kg	☼	64	10 - 120
2-Methylnaphthalene	ND		1.76	1.156		mg/Kg	☼	66	13 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	71		29 - 120
Terphenyl-d14 (Surr)	90		13 - 120
Nitrobenzene-d5 (Surr)	67		27 - 120

Lab Sample ID: 490-27307-3 MSD
Matrix: Solid
Analysis Batch: 81747

Client Sample ID: 603 Dahlia
Prep Type: Total/NA
Prep Batch: 81594

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthylene	ND		1.73	1.327		mg/Kg	☼	77	25 - 120	2	50
Anthracene	ND		1.73	1.273		mg/Kg	☼	74	28 - 125	8	49
Benzo[a]anthracene	ND		1.73	1.221		mg/Kg	☼	71	23 - 120	7	50
Benzo[a]pyrene	0.200		1.73	1.250		mg/Kg	☼	61	15 - 128	7	50
Benzo[b]fluoranthene	0.0907		1.73	1.310		mg/Kg	☼	71	12 - 133	9	50
Benzo[g,h,i]perylene	0.0823		1.73	1.258		mg/Kg	☼	68	22 - 120	8	50
Benzo[k]fluoranthene	ND		1.73	1.213		mg/Kg	☼	70	28 - 120	3	45
1-Methylnaphthalene	ND		1.73	1.170		mg/Kg	☼	68	10 - 120	3	50
Pyrene	0.0797		1.73	1.343		mg/Kg	☼	73	20 - 123	7	50
Phenanthrene	ND		1.73	1.219		mg/Kg	☼	71	21 - 122	7	50
Chrysene	0.0391	J	1.73	1.260		mg/Kg	☼	71	20 - 120	2	49

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

Lab Sample ID: 490-27307-3 MSD
Matrix: Solid
Analysis Batch: 81747

Client Sample ID: 603 Dahlia
Prep Type: Total/NA
Prep Batch: 81594

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibenz(a,h)anthracene	ND		1.73	1.255		mg/Kg	☼	73	12 - 128	7	50
Fluoranthene	ND		1.73	1.295		mg/Kg	☼	75	10 - 143	6	50
Fluorene	ND		1.73	1.258		mg/Kg	☼	73	20 - 120	3	50
Indeno[1,2,3-cd]pyrene	0.0741		1.73	1.255		mg/Kg	☼	68	22 - 121	6	50
Naphthalene	ND		1.73	0.03588	J F	mg/Kg	☼	2	10 - 120	188	50
2-Methylnaphthalene	ND		1.73	1.169		mg/Kg	☼	68	13 - 120	1	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*74*		*29 - 120*
Terphenyl-d14 (Surr)	*88*		*13 - 120*
Nitrobenzene-d5 (Surr)	*71*		*27 - 120*

Method: Moisture - Percent Moisture

Lab Sample ID: 490-27263-E-1 DU
Matrix: Solid
Analysis Batch: 81636

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	79		78		%		2	20

QC Association Summary

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

TestAmerica Job ID: 490-27307-1

GC/MS VOA

Prep Batch: 80593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27047-C-4-D MS	Matrix Spike	Total/NA	Solid	5035	
490-27047-C-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 81551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27307-2	1403 Eagle	Total/NA	Solid	5035	

Prep Batch: 81556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27307-1	1464 Cardinal	Total/NA	Solid	5035	
490-27307-2	1403 Eagle	Total/NA	Solid	5035	
490-27307-3	603 Dahlia	Total/NA	Solid	5035	

Analysis Batch: 82155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27047-C-4-D MS	Matrix Spike	Total/NA	Solid	8260B	80593
490-27047-C-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	80593
490-27307-1	1464 Cardinal	Total/NA	Solid	8260B	81556
490-27307-2	1403 Eagle	Total/NA	Solid	8260B	81556
490-27307-2	1403 Eagle	Total/NA	Solid	8260B	81551
490-27307-3	603 Dahlia	Total/NA	Solid	8260B	81556
LCS 490-82155/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-82155/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-82155/6	Method Blank	Total/NA	Solid	8260B	
MB 490-82155/7	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 81594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27307-1	1464 Cardinal	Total/NA	Solid	3550C	
490-27307-2	1403 Eagle	Total/NA	Solid	3550C	
490-27307-3	603 Dahlia	Total/NA	Solid	3550C	
490-27307-3 MS	603 Dahlia	Total/NA	Solid	3550C	
490-27307-3 MSD	603 Dahlia	Total/NA	Solid	3550C	
LCS 490-81594/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-81594/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 81747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27307-1	1464 Cardinal	Total/NA	Solid	8270D	81594
490-27307-2	1403 Eagle	Total/NA	Solid	8270D	81594
490-27307-3	603 Dahlia	Total/NA	Solid	8270D	81594
490-27307-3 MS	603 Dahlia	Total/NA	Solid	8270D	81594
490-27307-3 MSD	603 Dahlia	Total/NA	Solid	8270D	81594
LCS 490-81594/2-A	Lab Control Sample	Total/NA	Solid	8270D	81594
MB 490-81594/1-A	Method Blank	Total/NA	Solid	8270D	81594

QC Association Summary

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

TestAmerica Job ID: 490-27307-1

General Chemistry

Analysis Batch: 81636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-27263-E-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-27307-1	1464 Cardinal	Total/NA	Solid	Moisture	
490-27307-2	1403 Eagle	Total/NA	Solid	Moisture	
490-27307-3	603 Dahlia	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 490-27307-1

Client Sample ID: 1464 Cardinal

Lab Sample ID: 490-27307-1

Date Collected: 05/14/13 15:15

Matrix: Solid

Date Received: 05/23/13 08:30

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			81556	05/23/13 17:00	ML	TAL NSH
Total/NA	Analysis	8260B		1	82155	05/28/13 15:21	MH	TAL NSH
Total/NA	Prep	3550C			81594	05/24/13 06:55	JP	TAL NSH
Total/NA	Analysis	8270D		1	81747	05/25/13 03:46	JS	TAL NSH
Total/NA	Analysis	Moisture		1	81636	05/24/13 08:49	RS	TAL NSH

Client Sample ID: 1403 Eagle

Lab Sample ID: 490-27307-2

Date Collected: 05/15/13 15:00

Matrix: Solid

Date Received: 05/23/13 08:30

Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			81556	05/23/13 17:00	ML	TAL NSH
Total/NA	Analysis	8260B		1	82155	05/28/13 16:15	MH	TAL NSH
Total/NA	Prep	5035			81551	05/23/13 16:56	ML	TAL NSH
Total/NA	Analysis	8260B		1	82155	05/28/13 16:42	MH	TAL NSH
Total/NA	Prep	3550C			81594	05/24/13 06:55	JP	TAL NSH
Total/NA	Analysis	8270D		1	81747	05/25/13 04:09	JS	TAL NSH
Total/NA	Analysis	Moisture		1	81636	05/24/13 08:49	RS	TAL NSH

Client Sample ID: 603 Dahlia

Lab Sample ID: 490-27307-3

Date Collected: 05/16/13 14:15

Matrix: Solid

Date Received: 05/23/13 08:30

Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			81556	05/23/13 17:00	ML	TAL NSH
Total/NA	Analysis	8260B		1	82155	05/28/13 15:48	MH	TAL NSH
Total/NA	Prep	3550C			81594	05/24/13 06:55	JP	TAL NSH
Total/NA	Analysis	8270D		1	81747	05/25/13 02:37	JS	TAL NSH
Total/NA	Analysis	Moisture		1	81636	05/24/13 08:49	RS	TAL NSH

Laboratory References:

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

Method Summary

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

TestAmerica Job ID: 490-27307-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 490-27307-1

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	ACIL		393	10-30-13
A2LA	ISO/IEC 17025		0453.07	12-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
Illinois	NELAP	5	200010	12-09-13
Iowa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-13
Kentucky (UST)	State Program	4	19	09-15-13
Louisiana	NELAP	6	30613	06-30-13
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-10-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-13
North Dakota	State Program	8	R-146	06-30-13
Ohio VAP	State Program	5	CL0033	01-19-14
Oklahoma	State Program	6	9412	08-31-13
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-14
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
Texas	NELAP	6	T104704077-09-TX	08-31-13
USDA	Federal		S-48469	11-02-13
Utah	NELAP	8	TAN	06-30-13
Virginia	NELAP	3	460152	06-14-13
Washington	State Program	10	C789	07-19-13
West Virginia DEP	State Program	3	219	02-28-14
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Charleston

490-27307 Chain of Custody

Cooler Received/Opened On 5/23/2013 @ 0830

1. Tracking # 1763 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 0.8 *Degrees Celsius*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

PS 102

Loc: 490
27307

6/6/2013

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
Project Manager: Tom McElwee email: mcelwee@eeginc.net
Telephone Number: 843.412.2097 **Fax No.:** 843-879-0401
Sampler Name: (Print) Chris Tunstall
Sampler Signature:

Site State: SC
PO#: 1035
TA Quote #:
Project ID: Laurel Bay Housing Project
Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	Preservative: HNO_3 (Red Label)	Preservative: Her (Blue Label) Sodium Bisulfate	Preservative: NaOH (Orange Label)	Preservative: H_2SO_4 Plastic (Yellow Label)	Preservative: H_2SO_4 Glass(Yellow Label)	Preservative: None (Black Label)	Preservative: Other (Specify) Methanol	Matrix: Groundwater	Matrix: Wastewater	Matrix: Drinking Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: BTEX + Napth - 8260	Analyze For: PAH - 8270D	Analyze For:	RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
1464 Cardinal	5/14/13	1515	5	X					3				2	1					X		X	X	1				
1403 Eagle	5/15/13	1500	5	X					2				2	1					X		X	X	2				

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	5/22/13	0900	FedEx		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				5.23.13	0830

Laboratory Comments:
Temperature Upon Receipt: 0.8c
VOCs Free of Headspace? Y N

AS 2 of 2

Loc: 490
27307
#1
A

6/6/2013

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#: 1035

Telephone Number: 843.412.2097 **Fax No.:** 843-879-0401

TA Quote #:

Sampler Name: (Print) Pratt Shaw

Project ID: Laurel Bay Housing Project

Sampler Signature:

Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	None (Black Label)	Other (Specify)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX + Napth - 8260	PAH - 8270D										RUSH TAT (Pre-Schedule)	Standard TAT	Fax Results	Send QC with report
603 Dahlia	5/16/13	1415	5	X					2				2						X		X	X									3				

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	5/22/13	0900	Fedex		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			TAW	5-23-13	0830

Laboratory Comments:
Temperature Upon Receipt: 0-8c
VOCs Free of Headspace? Y N

Login Sample Receipt Checklist

Client: Small Business Group Inc.

Job Number: 490-27307-1

Login Number: 27307

List Number: 1

Creator: McBride, Mike

List Source: TestAmerica Nashville

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

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 603Dahlia; 603 Dahlia Drive, 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. McDaniel / 6/26/13

(Name) (Date)

Appendix C
Regulatory Correspondence

dhec
Healthy People. Healthy Communities.

December 14, 2016

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

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

Dear Mr. Drawdy:

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

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

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

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

Sincerely,

Laurel Petrus, Environmental Engineer Associate
RCRA Federal Facilities Section

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

Attachment to: Petrus to Drawdy
Subject: No Further Action
Dated December 14, 2016

Laurel Bay Underground Assessment Reports for (5 addresses/9 tanks)

No Further Action recommendation:	
255 Beech Tank 1	770 Althea Tank 1
255 Beech Tank 2	770 Althea Tank 2
345 Ash Tank 1	772 Althea Tank 1
345 Ash Tank 2	772 Althea Tank 2
603 Dahlia	