

SUMMARY REPORT
773 WEST LAUREL BAY BOULEVARD (FORMERLY 137 WEST LAUREL BAY
BOULEVARD)
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:



Multimedia Joint Venture
CDM - AECOM Multimedia Joint Venture
10560 Arrowhead Drive, Suite 500
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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
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 773 West Laurel Bay Boulevard (Formerly 137 West Laurel Bay Boulevard). 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, February 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 773 West Laurel Bay Boulevard (Formerly 137 West Laurel Bay Boulevard). Details regarding the soil investigation at this site are provided in *SCDHEC UST Assessment Report – 137 Laurel Bay Boulevard* (MCAS Beaufort, 2005) and *SCDHEC UST Assessment Report – 137 Laurel Bay Boulevard* (MCAS Beaufort, 2013). The UST Assessment Reports are provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015). 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

Two 280 gallon heating oil USTs were removed at 773 West Laurel Bay Boulevard (Formerly 137 West Laurel Bay Boulevard). Tank 1 was removed on October 8, 2004, from the

landscaped area adjacent to the driveway. Tank 2 was removed on January 9, 2013, was removed from the front yard adjacent to the driveway. The former UST locations are indicated in the figures of the UST Assessment Reports (Appendix B). The USTs were removed, cleaned, and shipped offsite for recycling. There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of each UST removal. According to the UST Assessment Reports (Appendix B), the depths to the bases of the USTs were 4'5" (Tank 1) and 4'11" (Tank 2) bgs. Five soil samples were collected at a depth of 4' for Tank 1 and a single soil sample was collected at a depth of 4'11" for Tank 2. The samples were collected from the fill port side of the former USTs to represent a worst case scenario.

Following UST removal, soil samples were 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 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 773 West Laurel Bay Boulevard (Formerly 137 West Laurel Bay Boulevard) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated May 15, 2014, SCDHEC requested an IGWA for 773 West Laurel Bay Boulevard (Formerly 137 West Laurel Bay Boulevard) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix D.

2.3 Groundwater Sampling

On May 27, 2015, a temporary monitoring well was installed at 773 West Laurel Bay Boulevard (Formerly 137 West Laurel Bay Boulevard), 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 locations are indicated in the figures of the UST Assessment Report (Appendix B). Further details are provided in the *Initial Groundwater Investigation Report – May and June 2015* (Resolution Consultants, 2015).

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 – May and June 2015* (Resolution Consultants, 2015).

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 773 West Laurel Bay Boulevard (Formerly 137 West Laurel Bay Boulevard) 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 773 West Laurel Bay Boulevard (Formerly 137 West Laurel Bay Boulevard). This NFA determination was obtained in a letter dated February 22, 2016. SCDHEC's NFA letter is provided in Appendix D.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2005. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 137 Laurel Bay Boulevard, Laurel Bay Military Housing Area*, April 2005.

Marine Corps Air Station Beaufort, 2013. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 137 Laurel Bay Boulevard, Laurel Bay Military Housing Area*, June 2013.

Resolution Consultants, 2015. *Initial Groundwater Investigation Report – May and June 2015 for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, October 2015.

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

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

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

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

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

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
773 West Laurel Bay Boulevard (Formerly 137 West Laurel Bay Boulevard)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results					
		Samples Collected 10/14/04 to 10/21/04 and 01/09/13					
		LB137SB001 10/14/04	LB137SB002 10/14/04	LB137SB003 10/14/04	LB137SB004 10/14/04	LB137SB005 10/21/04	137 Laurel Bay 01/09/13
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)							
Benzene	0.003	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.15	ND	ND	ND	0.047	1.400	0.00444
Naphthalene	0.036	ND	ND	ND	ND	13.000	0.153
Toluene	0.627	ND	ND	ND	0.360	ND	ND
Xylenes, Total	13.01	ND	ND	0.005	0.150	0.760	0.00537
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)							
Benzo(a)anthracene	0.66	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.66	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.66	ND	ND	ND	ND	ND	ND
Chrysene	0.66	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.66	ND	ND	ND	ND	ND	ND

Notes:

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

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

mg/kg - milligrams per kilogram

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Table 2
Laboratory Analytical Results - Groundwater
773 West Laurel Bay Blvd (Formerly 137 West Laurel Bay Blvd)
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 05/27/15
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)			
Benzene	5	16.24	0.23
Ethylbenzene	700	45.95	0.45
Naphthalene	25	29.33	9.9
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 1×10^{-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.

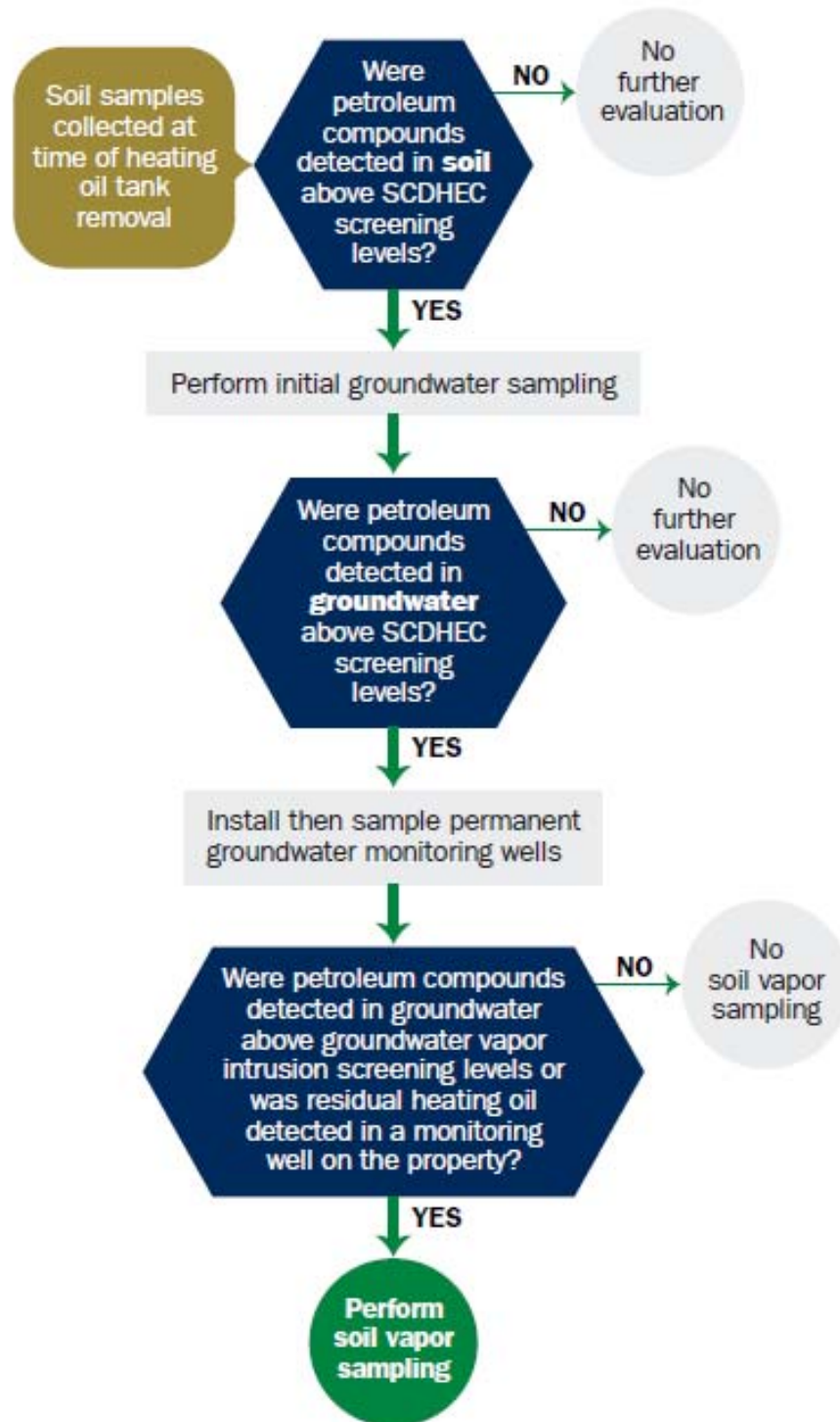
RBSL - Risk-Based Screening Level

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



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Reports

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

Date Received
Site Use Only

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

I. OWNERSHIP OF UST(S)

Marine Corp Air Station		
Owner Name (Corporation, Individual, Public Agency, Other)		
Bldg 601 2nd Floor Geiger Blvd MCAS		
Mailing Address		
Beaufort	South Carolina	29904-5001
City	State	Zip Code
843	228-7317	* Alice Howard
Area Code	Telephone Number	Contact Person

II. SITE IDENTIFICATION AND LOCATION

Permit I.D. #	
Laurel Bay Housing- MCAS Beaufort, SC	
Facility Name or Company Site Identifier	
137 Laurel Bay Blvd	
Street Address or State Road (as applicable)	
Beaufort	Beaufort
City	County

III. CLOSURE INFORMATION

October 7, 2004	October 8, 2004	one
Closure Started	Closure Completed	Number of USTs Closed
ADVENT Environmental, Inc		
Consultant	UST Removal Contractor	

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

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

V. UST INFORMATION

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

Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
heating oil					
280 Gal					
> 40					
steel					
N/A					
4.5 ft					
no					
no					
removal					
10-8-04					
yes					
yes					

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
Tank was cut up and cleaned for scrap metal. All metal was taken to Beaufort County Recycling landfill.
- N. Method of disposal for any liquid petroleum, sludges, or waste waters removed from the USTs (attach disposal manifests)
Water used to decon tanks was containerized in 55 gallon drums stored temporarily
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST
The UST had visual corrosion and pitting located on the body of the tank.

VI. PIPING INFORMATION

- A. Construction Material..(ex. Steel, FRP).....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System Pressure or Suction.....
- E. Was Piping Removed from the Ground? Y/N
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....

Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
copper					
3'					
1					
S					
yes					
no					
no					
> 40 years					

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

none

VII. BRIEF SITE DESCRIPTION AND HISTORY

Site is used for military housing for MCAS. The structure (137 Laurel Bay Blvd) was built

in the 1950's (see attached pictures for more detail of site). The onsite underground

storage tank was used to heat 137 Laurel Bay Blvd. There are no records

available confirming date the tanks were last used.

VIII SITE CONDITIONS

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

IX. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number: 99030

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected By	OVA PPM
137SB001	See map	Soil	Sand	4'	10/14/04 0930	BRC	**
137SB002	See map	Soil	Sand	4'	10/14/04 1000	BRC	**
137SB003	See map	Soil	Sand	4'	10/14/04 1030	BRC	**
137SB004	See map	Soil	Sand	4'	10/14/04 1100	BRC	**
137SB005	See map	Soil	Sand	4'	10/22/04 1110	BRC	**

* Depth Below Surrounding Land Surface (bls)

** - No OVA was used. All delineating soil samples were collected just above saturation.

X. 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.

Soil samples were collected using "grab method" and stored at 4° C using ice.

Methods: BTEX-8260 with methanol as a preservative; Naphthalene-8260; PAH-8270. Soil borings 1-4 were collected prior to excavation and used as delineation boundaries. Soil boring 5 was collected from the bottom of the excavation.

XI. RECEPTORS

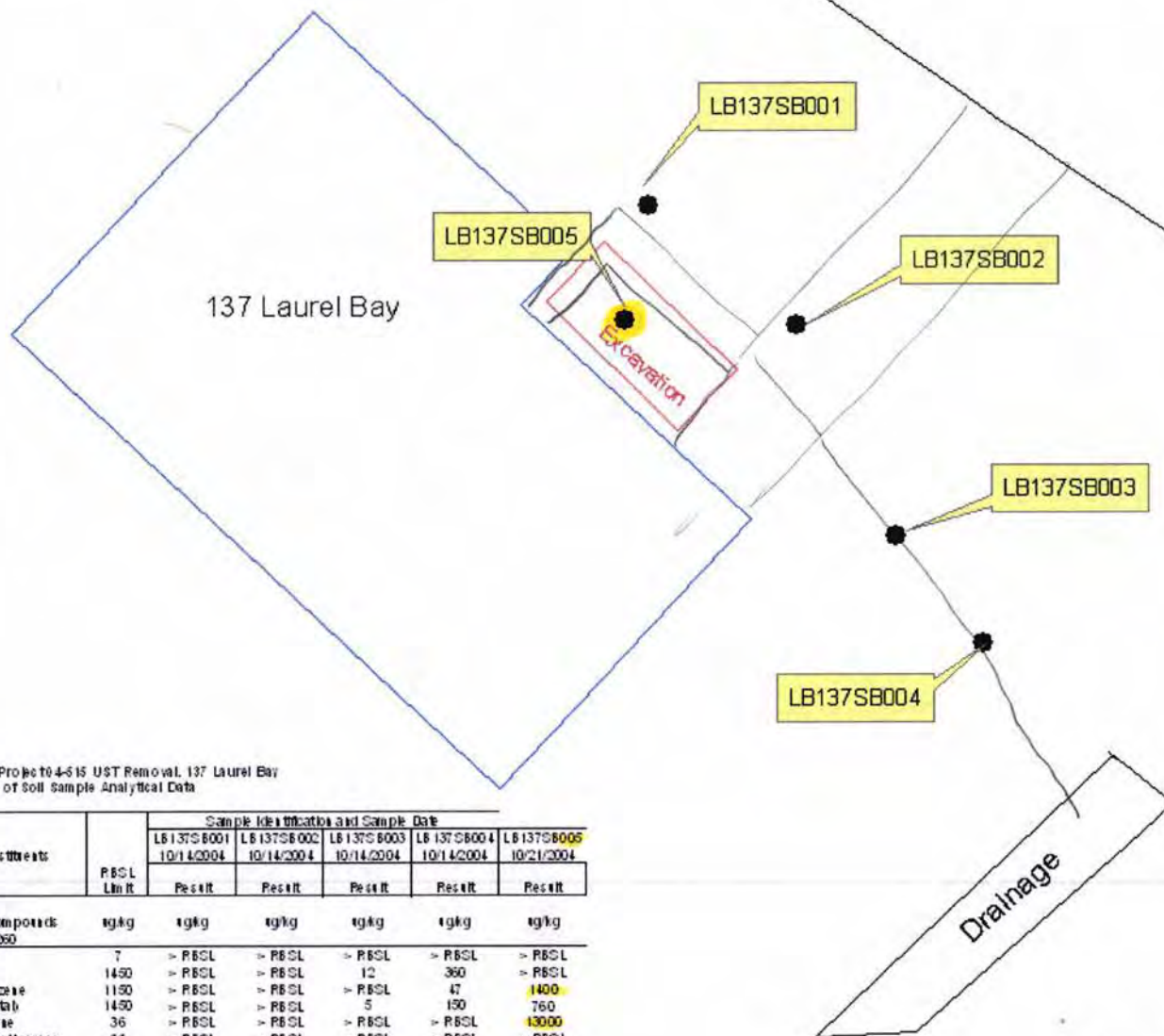
	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system. If yes, indicate type of receptor, distance, and direction on site map.	X	
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate the 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? 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

137 Laurel Bay
MCAS, Beaufort, SC



0 250 500 1,000
Feet





ADVENT Project 04-615 UST Removal, 137 Laurel Bay
Summary of Soil Sample Analytical Data

Constituents	PBSL Limit	Sample Identification and Sample Date				
		LB137SB001 10/14/2004	LB137SB002 10/14/2004	LB137SB003 10/14/2004	LB137SB004 10/14/2004	LB137SB005 10/21/2004
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Volatile Organic Compounds Method 8260						
Benzene	7	> PBSL	> PBSL	> PBSL	> PBSL	> PBSL
Toluene	1450	> PBSL	> PBSL	12	360	> PBSL
Ethylbenzene	1150	> PBSL	> PBSL	> PBSL	47	1400
Xylenes (total)	1450	> PBSL	> PBSL	5	150	760
Napthalene	36	> PBSL	> PBSL	> PBSL	> PBSL	13000
Benzofuran	66	> PBSL	> PBSL	> PBSL	> PBSL	> PBSL
Benzofluoranthene	66	> PBSL	> PBSL	> PBSL	> PBSL	> PBSL
Benzopyrene	66	> PBSL	> PBSL	> PBSL	> PBSL	> PBSL
Chrysene	66	> PBSL	> PBSL	> PBSL	> PBSL	> PBSL
Dibenzofuran	66	> PBSL	> PBSL	> PBSL	> PBSL	> PBSL



137 Laurel Bay Blvd- Prior to excavation



137 Laurel Bay Blvd-Top of Tank



137 Laurel bay Blvd-Excavation



137 Laurel Bay Blvd-Excavation



137 Laurel Bay Blvd- 280 gallon Tank



137 Laurel Bay Blvd- Backfill material



137 Laurel Bay Blvd- Post Excavation



OAKRIDGE LANDFILL
WASTE MANAGEMENT COMPANY

SPECIAL WASTE MANIFEST

Approval # VB 3878
Expiration 06/25/04

Generator: MCAS BEAUFORT

Account Number: 490-335

Location/Address: HIGHWAY 21 S BEAUFORT SC (07)

Tele Number: 843-563-8916

Contact: W G DUKES JR Beaufort SC 29904

Commanding Officer
ATTN: NR240
MCAS
PO Box 55001

Generator Signature: W.G. Dukes, Jr.

***** TO BE COMPLETED BY TRANSPORTER *****

Transporter of Waste: GLOBAL ENVIRO ASSURANCE

Truck: 003

Date: 10/21/04

Driver's Signature: Tommy

***** TO BE COMPLETED BY OAKRIDGE LANDFILL *****

Disposal Site: Oakridge Landfill DWP 130

Description of Waste: SOL/UST REMOVAL

Ticket Number: 205051

Tonnage: 14.50

Received By: C. Matter

Date: 10/21/04

0003

NO. 627

GLOBAL ENVIRONMENTAL ASSURANCE → 18433881891

15:15

11/05/2004

WM
OAKRIDGE LANDFILL

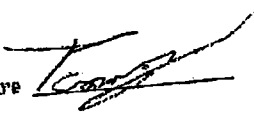
A Waste Management Company

2183 Highway 78
Dorchester, SC 29437
(843) 563-2807 • (843) 563-4158 Fax

Date: 10/21/2004 (MANUAL) 12:12 PM
TIME IN: 12:11 TIME OUT: 12:11 Ticket: 295051
490-335
GLOBAL ENVIRO ASSURANCE
320 WINNINGHAM ROAD
ST GEORGE SC 29477-8409

Driver: Truck: 320

Description	Quantity
CONTAMINATED SOIL	14.52 TON
Generator: MCAS MCAS BEAUFORT	
Approval: VB3878 SOIL LST REMOVAL	
Source: 07 Type: SOL District: 2	
GVW: 61600 TW: 32500	
FUEL SURCHARGE	

Signature 



ADVENT Environmental Inc.
498 Wando Park Blvd.
Mt. Pleasant, SC 29464

(843) 388-1851 Phone
(843) 388-1891 Fax

Origination of recyclable materials:

137 Laurel Bay Circle
One tank 300

Disposal Location: Beaufort County Public Works
Solid Waste and Recycling Division
120 Shanklin Road
Beaufort, South Carolina 29906
(843) 470-6406-Phone

I certify that the above scrap metal equipment has been properly cleaned.

Brian R. Crawford
PRINT (ADVENT REPRESENTATIVE)

[Signature] 10/20/01
SIGNATURE DATE

I certify that the above tanks have been accepted and will be recycled by the Beaufort County Solid Waste and Recycling Division.

Robert Wells
PRINT (BCPW REPRESENTATIVE)

[Signature]
SIGNATURE DATE

BCPW Contact information:
Gary Jones (843) 812-2052
Darrell Hylton (843) 812-3864

October 18, 2004

Mr. Brian Crawford
Advent Environmental
498 Wando Pk Blvd
Suite 500
Mt. Pleasant, SC 29464

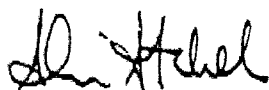
RE: Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Dear Mr. Crawford:

Enclosed are the analytical results for sample(s) received by the laboratory on October 15, 2004. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,



Sherri Stabel
Sherri.Stabel@pacelabs.com
Project Manager

Enclosures

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Solid results are reported on a dry weight basis

Lab Sample No: 924844376
Client Sample ID: LB137SB001

Project Sample Number: 9279179-001
Matrix: Soil

Date Collected: 10/14/04 13:00
Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	Req/Lmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	15.2	%		1.0	10/16/04 10:52	DHW			

GC/MS Semivolatiles

Semivolatile Organics	Prep/Method: EPA 3545 / EPA 8270								
Acenaphthene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	83-32-9		
Acenaphthylene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	208-96-8		
Anthracene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	56-55-3		
Benzoic acid	ND	ug/kg	1900	1.2	10/16/04 18:39	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	780	1.2	10/16/04 18:39	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	390	1.2	10/16/04 18:39	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	390	1.2	10/16/04 18:39	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	780	1.2	10/16/04 18:39	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	780	1.2	10/16/04 18:39	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	390	1.2	10/16/04 18:39	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	390	1.2	10/16/04 18:39	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	390	1.2	10/16/04 18:39	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	390	1.2	10/16/04 18:39	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	390	1.2	10/16/04 18:39	BET	7005-72-3		
Chrysene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	53-70-3		
Dibenzofuran	ND	ug/kg	390	1.2	10/16/04 18:39	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	780	1.2	10/16/04 18:39	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	390	1.2	10/16/04 18:39	BET	120-83-2		
Diethylphthalate	ND	ug/kg	390	1.2	10/16/04 18:39	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	390	1.2	10/16/04 18:39	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	390	1.2	10/16/04 18:39	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	390	1.2	10/16/04 18:39	BET	84-74-2		

Date: 10/18/04

Page: 1 of 36

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844376 Project Sample Number: 9279179-001 Date Collected: 10/14/04 13:00
Client Sample ID: LB137SB001 Matrix: Soil Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
4,6-Dinitro-2-methylphenol	ND	ug/kg	390	1.2	10/16/04 18:39	BET	534-52-1		
2,4-Dinitrophenol	ND	ug/kg	1900	1.2	10/16/04 18:39	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	390	1.2	10/16/04 18:39	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	390	1.2	10/16/04 18:39	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	390	1.2	10/16/04 18:39	BET	117-81-7		
Fluoranthene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	206-44-0		
Fluorene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	77-47-4		
Hexachloroethane	ND	ug/kg	390	1.2	10/16/04 18:39	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	193-39-5		
Isophorone	ND	ug/kg	390	1.2	10/16/04 18:39	BET	78-59-1		
2-Methylnaphthalene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	390	1.2	10/16/04 18:39	BET	95-48-7		
3&4-Methylphenol	ND	ug/kg	390	1.2	10/16/04 18:39	BET			
Naphthalene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	91-20-3		
2-Nitroaniline	ND	ug/kg	1900	1.2	10/16/04 18:39	BET	88-74-4		
3-Nitroaniline	ND	ug/kg	1900	1.2	10/16/04 18:39	BET	99-09-2		
4-Nitroaniline	ND	ug/kg	1900	1.2	10/16/04 18:39	BET	100-01-6		
Nitrobenzene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	98-95-3		
2-Nitrophenol	ND	ug/kg	390	1.2	10/16/04 18:39	BET	88-75-5		
4-Nitrophenol	ND	ug/kg	1900	1.2	10/16/04 18:39	BET	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	390	1.2	10/16/04 18:39	BET	621-64-7		
N-Nitrosodiphenylamine	ND	ug/kg	390	1.2	10/16/04 18:39	BET	86-30-6		
Pentachlorophenol	ND	ug/kg	1900	1.2	10/16/04 18:39	BET	87-86-5		
Phenanthrene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	85-01-8		
Phenol	ND	ug/kg	390	1.2	10/16/04 18:39	BET	108-95-2		
Pyrene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/kg	390	1.2	10/16/04 18:39	BET	120-82-1		
2,4,5-Trichlorophenol	ND	ug/kg	390	1.2	10/16/04 18:39	BET	95-95-4		
2,4,6-Trichlorophenol	ND	ug/kg	390	1.2	10/16/04 18:39	BET	88-06-2		
Nitrobenzene-d5 (S)	62	%		1.0	10/16/04 18:39	BET	4165-60-0		
2-Fluorobiphenyl (S)	62	%		1.0	10/16/04 18:39	BET	321-60-8		
Terphenyl-d14 (S)	76	%		1.0	10/16/04 18:39	BET	1718-51-0		
Phenol-d5 (S)	59	%		1.0	10/16/04 18:39	BET	4165-62-2		
2-Fluorophenol (S)	58	%		1.0	10/16/04 18:39	BET	367-12-4		

Date: 10/18/04

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Asheville Certification IDs
NC Wastewater 40
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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844376
Client Sample ID: LB137SB001

Project Sample Number: 9279179-001
Matrix: Soil

Date Collected: 10/14/04 13:00
Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
2,4,6-Tribromophenol (S)	66	%		1.0	10/16/04 18:39	BET			
Date Extracted	10/15/04				10/15/04				

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level Method: EPA 8260

Acetone	ND	ug/kg	73.	0.7	10/17/04 15:54	MSF	67-64-1		
Benzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	71-43-2		
Bromobenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	108-86-1		
Bromochloromethane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	74-97-5		
Bromodichloromethane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	75-27-4		
Bromoform	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	75-25-2		
Bromomethane	ND	ug/kg	7.3	0.7	10/17/04 15:54	MSF	74-83-9		
2-Butanone (MEK)	ND	ug/kg	73.	0.7	10/17/04 15:54	MSF	78-93-3		
n-Butylbenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	104-51-8		
sec-Butylbenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	135-98-8		
tert-Butylbenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	98-06-6		
Carbon tetrachloride	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	56-23-5		
Chlorobenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	108-90-7		
Chloroethane	ND	ug/kg	7.3	0.7	10/17/04 15:54	MSF	75-00-3		
Chloroform	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	67-66-3		
Chloromethane	ND	ug/kg	7.3	0.7	10/17/04 15:54	MSF	74-87-3		
2-Chlorotoluene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	95-49-8		
4-Chlorotoluene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	96-12-8		
Dibromochloromethane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	106-93-4		
Dibromomethane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	74-95-3		
1,2-Dichlorobenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	7.3	0.7	10/17/04 15:54	MSF	75-71-8		
1,1-Dichloroethane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	75-34-3		
1,2-Dichloroethane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	107-06-2		
1,1-Dichloroethene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	156-60-5		
1,2-Dichloropropane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	78-87-5		
1,3-Dichloropropane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	142-28-9		
2,2-Dichloropropane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	594-20-7		

Date: 10/18/04

Page: 3 of 36

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844376 Project Sample Number: 9279179-001 Date Collected: 10/14/04 13:00
Client Sample ID: LB137SB001 Matrix: Soil Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
1,1-Dichloropropene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	10061-02-6		
Diisopropyl ether	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	108-20-3		
Ethylbenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	87-68-3		
2-Hexanone	ND	ug/kg	37.	0.7	10/17/04 15:54	MSF	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	98-82-8		
p-Isopropyltoluene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	99-87-6		
Methylene chloride	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	37.	0.7	10/17/04 15:54	MSF	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	1634-04-4		
Naphthalene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	91-20-3		
n-Propylbenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	103-65-1		
Styrene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	79-34-5		
Tetrachloroethene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	127-18-4		
Toluene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	79-00-5		
Trichloroethene	6.1	ug/kg	3.7	0.7	10/17/04 15:54	MSF	79-01-6	1	
Trichlorofluoromethane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	108-67-8		
Vinyl acetate	ND	ug/kg	37.	0.7	10/17/04 15:54	MSF	108-05-4		
Vinyl chloride	ND	ug/kg	7.3	0.7	10/17/04 15:54	MSF	75-01-4		
Xylene (Total)	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	1330-20-7		
m&p-Xylene	ND	ug/kg	7.3	0.7	10/17/04 15:54	MSF			
o-Xylene	ND	ug/kg	3.7	0.7	10/17/04 15:54	MSF	95-47-6		
Toluene-d8 (S)	108	%		1.0	10/17/04 15:54	MSF	2037-26-5		
4-Bromofluorobenzene (S)	93	%		1.0	10/17/04 15:54	MSF	460-00-4		
Dibromofluoromethane (S)	90	%		1.0	10/17/04 15:54	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	86	%		1.0	10/17/04 15:54	MSF	17060-07-0		

Date: 10/18/04

Page: 4 of 36

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E8762/

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844384 Project Sample Number: 9279179-002 Date Collected: 10/14/04 13:00
Client Sample ID: LB137SB002 Matrix: Soil Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture				1.0 10/16/04 10:52	DHW			
Percent Moisture	14.1	%							

GC/MS Semivolatiles

Semivolatile Organics	Prep/Method: EPA 3545 / EPA 8270								
Acenaphthene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	83-32-9		
Acenaphthylene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	208-96-8		
Anthracene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	56-55-3		
Benzoic acid	ND	ug/kg	1900		1.2 10/16/04 19:16	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	770		1.2 10/16/04 19:16	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	380		1.2 10/16/04 19:16	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	380		1.2 10/16/04 19:16	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	770		1.2 10/16/04 19:16	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	770		1.2 10/16/04 19:16	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	380		1.2 10/16/04 19:16	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	380		1.2 10/16/04 19:16	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	380		1.2 10/16/04 19:16	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	380		1.2 10/16/04 19:16	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	380		1.2 10/16/04 19:16	BET	7005-72-3		
Chrysene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	53-70-3		
Dibenzofuran	ND	ug/kg	380		1.2 10/16/04 19:16	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	380		1.2 10/16/04 19:16	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	770		1.2 10/16/04 19:16	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	380		1.2 10/16/04 19:16	BET	120-83-2		
Diethylphthalate	ND	ug/kg	380		1.2 10/16/04 19:16	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	380		1.2 10/16/04 19:16	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	380		1.2 10/16/04 19:16	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	380		1.2 10/16/04 19:16	BET	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/kg	380		1.2 10/16/04 19:16	BET	534-52-1		

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
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REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844384 Project Sample Number: 9279179-002 Date Collected: 10/14/04 13:00
Client Sample ID: LB137SB002 Matrix: Soil Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
2,4-Dinitrophenol	ND	ug/kg	1900	1.2	10/16/04 19:16	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	380	1.2	10/16/04 19:16	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	380	1.2	10/16/04 19:16	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	380	1.2	10/16/04 19:16	BET	117-81-7		
Fluoranthene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	206-44-0		
Fluorene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	77-47-4		
Hexachloroethane	ND	ug/kg	380	1.2	10/16/04 19:16	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	193-39-5		
Isophorone	ND	ug/kg	380	1.2	10/16/04 19:16	BET	78-59-1		
2-Methylnaphthalene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	380	1.2	10/16/04 19:16	BET	95-48-7		
3&4-Methylphenol	ND	ug/kg	380	1.2	10/16/04 19:16	BET			
Naphthalene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	91-20-3		
2-Nitroaniline	ND	ug/kg	1900	1.2	10/16/04 19:16	BET	88-74-4		
3-Nitroaniline	ND	ug/kg	1900	1.2	10/16/04 19:16	BET	99-09-2		
4-Nitroaniline	ND	ug/kg	1900	1.2	10/16/04 19:16	BET	100-01-6		
Nitrobenzene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	98-95-3		
2-Nitrophenol	ND	ug/kg	380	1.2	10/16/04 19:16	BET	88-75-5		
4-Nitrophenol	ND	ug/kg	1900	1.2	10/16/04 19:16	BET	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	380	1.2	10/16/04 19:16	BET	621-64-7		
N-Nitrosodiphenylamine	ND	ug/kg	380	1.2	10/16/04 19:16	BET	86-30-6		
Pentachlorophenol	ND	ug/kg	1900	1.2	10/16/04 19:16	BET	87-86-5		
Phenanthrene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	85-01-8		
Phenol	ND	ug/kg	380	1.2	10/16/04 19:16	BET	108-95-2		
Pyrene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/kg	380	1.2	10/16/04 19:16	BET	120-82-1		
2,4,5-Trichlorophenol	ND	ug/kg	380	1.2	10/16/04 19:16	BET	95-95-4		
2,4,6-Trichlorophenol	ND	ug/kg	380	1.2	10/16/04 19:16	BET	88-06-2		
Nitrobenzene-d5 (S)	57	%		1.0	10/16/04 19:16	BET	4165-60-0		
2-Fluorobiphenyl (S)	52	%		1.0	10/16/04 19:16	BET	321-60-8		
Terphenyl-d14 (S)	76	%		1.0	10/16/04 19:16	BET	1718-51-0		
Phenol-d5 (S)	59	%		1.0	10/16/04 19:16	BET	4165-62-2		
2-Fluorophenol (S)	55	%		1.0	10/16/04 19:16	BET	367-12-4		
2,4,6-Tribromophenol (S)	63	%		1.0	10/16/04 19:16	BET			

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Asheville Certification IDs
NC Wastewater 40
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REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844384 Project Sample Number: 9279179-002 Date Collected: 10/14/04 13:00
Client Sample ID: LB137SB002 Matrix: Soil Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Date Extracted	10/15/04				10/15/04				

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level Method: EPA 8260

Acetone	150	ug/kg	120	1.2	10/17/04 16:12	MSF	67-64-1	2
Benzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	75-27-4	
Bromoform	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	75-25-2	
Bromomethane	ND	ug/kg	12.	1.2	10/17/04 16:12	MSF	74-83-9	
2-Butanone (MEK)	ND	ug/kg	120	1.2	10/17/04 16:12	MSF	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	108-90-7	
Chloroethane	ND	ug/kg	12.	1.2	10/17/04 16:12	MSF	75-00-3	
Chloroform	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	67-66-3	
Chloromethane	ND	ug/kg	12.	1.2	10/17/04 16:12	MSF	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	96-12-8	
Dibromochloromethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	106-46-7	
Dichlorodifluoromethane	13.	ug/kg	12.	1.2	10/17/04 16:12	MSF	75-71-8	2
1,1-Dichloroethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	563-58-6	

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Asheville Certification IDs
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NC Drinking Water 37712
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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844384
Client Sample ID: LB137SB002

Project Sample Number: 9279179-002
Matrix: Soil

Date Collected: 10/14/04 13:00
Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	10061-02-6		
Diisopropyl ether	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	108-20-3		
Ethylbenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	87-68-3		
2-Hexanone	ND	ug/kg	58.	1.2	10/17/04 16:12	MSF	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	98-82-8		
p-Isopropyltoluene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	99-87-6		
Methylene chloride	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	58.	1.2	10/17/04 16:12	MSF	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	1634-04-4		
Naphthalene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	91-20-3		
n-Propylbenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	103-65-1		
Styrene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	79-34-5		
Tetrachloroethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	127-18-4		
Toluene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	79-00-5		
Trichloroethene	17.	ug/kg	5.8	1.2	10/17/04 16:12	MSF	79-01-6	1,2	
Trichlorofluoromethane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	108-67-8		
Vinyl acetate	ND	ug/kg	58.	1.2	10/17/04 16:12	MSF	108-05-4		
Vinyl chloride	ND	ug/kg	12.	1.2	10/17/04 16:12	MSF	75-01-4		
Xylene (Total)	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	1330-20-7		
m&p-Xylene	ND	ug/kg	12.	1.2	10/17/04 16:12	MSF			
o-Xylene	ND	ug/kg	5.8	1.2	10/17/04 16:12	MSF	95-47-6		
Toluene-d8 (S)	101	%		1.0	10/17/04 16:12	MSF	2037-26-5		
4-Bromofluorobenzene (S)	85	%		1.0	10/17/04 16:12	MSF	460-00-4		
Dibromofluoromethane (S)	108	%		1.0	10/17/04 16:12	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	111	%		1.0	10/17/04 16:12	MSF	17060-07-0		

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179

Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844392
Client Sample ID: LB137SB003

Project Sample Number: 9279179-003
Matrix: Soil

Date Collected: 10/14/04 13:00
Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	25.0	%		1.0	10/16/04 10:52	DHW			

GC/MS Semivolatiles

Semivolatile Organics	Prep/Method: EPA 3545 / EPA 8270								
Acenaphthene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	83-32-9		
Acenaphthylene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	208-96-8		
Anthracene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	56-55-3		
Benzoic acid	ND	ug/kg	2200	1.3	10/16/04 19:53	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	870	1.3	10/16/04 19:53	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	440	1.3	10/16/04 19:53	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	440	1.3	10/16/04 19:53	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	870	1.3	10/16/04 19:53	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	870	1.3	10/16/04 19:53	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	440	1.3	10/16/04 19:53	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	440	1.3	10/16/04 19:53	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	440	1.3	10/16/04 19:53	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	440	1.3	10/16/04 19:53	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	440	1.3	10/16/04 19:53	BET	7005-72-3		
Chrysene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	53-70-3		
Dibenzofuran	ND	ug/kg	440	1.3	10/16/04 19:53	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	870	1.3	10/16/04 19:53	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	440	1.3	10/16/04 19:53	BET	120-83-2		
Diethylphthalate	ND	ug/kg	440	1.3	10/16/04 19:53	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	440	1.3	10/16/04 19:53	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	440	1.3	10/16/04 19:53	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	440	1.3	10/16/04 19:53	BET	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/kg	440	1.3	10/16/04 19:53	BET	534-52-1		

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844392
Client Sample ID: LB137SB003

Project Sample Number: 9279179-003
Matrix: Soil

Date Collected: 10/14/04 13:00
Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
2,4-Dinitrophenol	ND	ug/kg	2200	1.3	10/16/04 19:53	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	440	1.3	10/16/04 19:53	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	440	1.3	10/16/04 19:53	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	440	1.3	10/16/04 19:53	BET	117-81-7		
Fluoranthene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	206-44-0		
Fluorene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	77-47-4		
Hexachloroethane	ND	ug/kg	440	1.3	10/16/04 19:53	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	193-39-5		
Isophorone	ND	ug/kg	440	1.3	10/16/04 19:53	BET	78-59-1		
2-Methylnaphthalene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	440	1.3	10/16/04 19:53	BET	95-48-7		
3&4-Methylphenol	ND	ug/kg	440	1.3	10/16/04 19:53	BET			
Naphthalene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	91-20-3		
2-Nitroaniline	ND	ug/kg	2200	1.3	10/16/04 19:53	BET	88-74-4		
3-Nitroaniline	ND	ug/kg	2200	1.3	10/16/04 19:53	BET	99-09-2		
4-Nitroaniline	ND	ug/kg	2200	1.3	10/16/04 19:53	BET	100-01-6		
Nitrobenzene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	98-95-3		
2-Nitrophenol	ND	ug/kg	440	1.3	10/16/04 19:53	BET	88-75-5		
4-Nitrophenol	ND	ug/kg	2200	1.3	10/16/04 19:53	BET	100-02-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	440	1.3	10/16/04 19:53	BET	621-64-7		
N-Nitrosodiphenylamine	ND	ug/kg	440	1.3	10/16/04 19:53	BET	86-30-6		
Pentachlorophenol	ND	ug/kg	2200	1.3	10/16/04 19:53	BET	87-86-5		
Phenanthrene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	85-01-8		
Phenol	ND	ug/kg	440	1.3	10/16/04 19:53	BET	108-95-2		
Pyrene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	129-00-0		
1,2,4-Trichlorobenzene	ND	ug/kg	440	1.3	10/16/04 19:53	BET	120-82-1		
2,4,5-Trichlorophenol	ND	ug/kg	440	1.3	10/16/04 19:53	BET	95-95-4		
2,4,6-Trichlorophenol	ND	ug/kg	440	1.3	10/16/04 19:53	BET	88-06-2		
Nitrobenzene-d5 (S)	59	%		1.0	10/16/04 19:53	BET	4165-60-0		
2-Fluorobiphenyl (S)	62	%		1.0	10/16/04 19:53	BET	321-60-8		
Terphenyl-d14 (S)	91	%		1.0	10/16/04 19:53	BET	1718-51-0		
Phenol-d5 (S)	64	%		1.0	10/16/04 19:53	BET	4165-62-2		
2-Fluorophenol (S)	58	%		1.0	10/16/04 19:53	BET	367-12-4		
2,4,6-Tribromophenol (S)	61	%		1.0	10/16/04 19:53	BET			

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REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844392 Project Sample Number: 9279179-003 Date Collected: 10/14/04 13:00
Client Sample ID: LB137SB003 Matrix: Soil Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Date Extracted	10/15/04				10/15/04				

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level Method: EPA 8260

Compound	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Acetone	ND	ug/kg	97.	1.0	10/16/04 19:18 MSF		67-64-1		
Benzene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		71-43-2		
Bromobenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		108-86-1		
Bromochloromethane	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		74-97-5		
Bromodichloromethane	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		75-27-4		
Bromoform	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		75-25-2		
Bromomethane	ND	ug/kg	9.7	1.0	10/16/04 19:18 MSF		74-83-9		
2-Butanone (MEK)	ND	ug/kg	97.	1.0	10/16/04 19:18 MSF		78-93-3		
n-Butylbenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		104-51-8		
sec-Butylbenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		135-98-8		
tert-Butylbenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		98-06-6		
Carbon tetrachloride	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		56-23-5		
Chlorobenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		108-90-7		
Chloroethane	ND	ug/kg	9.7	1.0	10/16/04 19:18 MSF		75-00-3		
Chloroform	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		67-66-3		
Chloromethane	ND	ug/kg	9.7	1.0	10/16/04 19:18 MSF		74-87-3		
2-Chlorotoluene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		95-49-8		
4-Chlorotoluene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		96-12-8		
Dibromochloromethane	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		106-93-4		
Dibromomethane	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		74-95-3		
1,2-Dichlorobenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		106-46-7		
Dichlorodifluoromethane	ND	ug/kg	9.7	1.0	10/16/04 19:18 MSF		75-71-8		
1,1-Dichloroethane	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		75-34-3		
1,2-Dichloroethane	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		107-06-2		
1,1-Dichloroethene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		156-60-5		
1,2-Dichloropropane	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		78-87-5		
1,3-Dichloropropane	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		142-28-9		
2,2-Dichloropropane	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		594-20-7		
1,1-Dichloropropene	ND	ug/kg	4.8	1.0	10/16/04 19:18 MSF		563-58-6		

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844392
Client Sample ID: LB137SB003

Project Sample Number: 9279179-003
Matrix: Soil

Date Collected: 10/14/04 13:00
Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	10061-02-6		
Diisopropyl ether	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	108-20-3		
Ethylbenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	87-68-3		
2-Hexanone	ND	ug/kg	48.	1.0	10/16/04 19:18	MSF	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	98-82-8		
p-Isopropyltoluene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	99-87-6		
Methylene chloride	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	48.	1.0	10/16/04 19:18	MSF	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	1634-04-4		
Naphthalene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	91-20-3		
n-Propylbenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	103-65-1		
Styrene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	79-34-5		
Tetrachloroethene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	127-18-4		
Toluene	12.	ug/kg	4.8	1.0	10/16/04 19:18	MSF	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	79-00-5		
Trichloroethene	44.	ug/kg	4.8	1.0	10/16/04 19:18	MSF	79-01-6		
Trichlorofluoromethane	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	108-67-8		
Vinyl acetate	ND	ug/kg	48.	1.0	10/16/04 19:18	MSF	108-05-4		
Vinyl chloride	ND	ug/kg	9.7	1.0	10/16/04 19:18	MSF	75-01-4		
Xylene (Total)	5.0	ug/kg	4.8	1.0	10/16/04 19:18	MSF	1330-20-7		
m&p-Xylene	ND	ug/kg	9.7	1.0	10/16/04 19:18	MSF	95-47-6		
o-Xylene	ND	ug/kg	4.8	1.0	10/16/04 19:18	MSF	2037-26-5		
Toluene-d8 (S)	97	%		1.0	10/16/04 19:18	MSF	460-00-4		
4-Bromofluorobenzene (S)	84	%		1.0	10/16/04 19:18	MSF	1868-53-7		
Dibromofluoromethane (S)	118	%		1.0	10/16/04 19:18	MSF	17060-07-0		
1,2-Dichloroethane-d4 (S)	107	%							

Date: 10/18/04

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Asheville Certification IDs
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Charlotte Certification IDs
NC Wastewater 17
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844400 Project Sample Number: 9279179-004 Date Collected: 10/14/04 13:00
Client Sample ID: LB137SB004 Matrix: Soil Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Wet Chemistry									
Percent Moisture	Method: % Moisture				1.0 10/16/04 10:53	DHW			
Percent Moisture	12.3	%							

GC/MS Semivolatiles

Semivolatile Organics	Prep/Method: EPA 3545 / EPA 8270								
Acenaphthene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	83-32-9		
Acenaphthylene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	208-96-8		
Anthracene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	56-55-3		
Benzoic acid	ND	ug/kg	1900		1.1 10/16/04 20:29	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	750		1.1 10/16/04 20:29	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	380		1.1 10/16/04 20:29	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	380		1.1 10/16/04 20:29	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	750		1.1 10/16/04 20:29	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	750		1.1 10/16/04 20:29	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	380		1.1 10/16/04 20:29	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	380		1.1 10/16/04 20:29	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	380		1.1 10/16/04 20:29	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	380		1.1 10/16/04 20:29	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	380		1.1 10/16/04 20:29	BET	7005-72-3		
Chrysene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	53-70-3		
Dibenzofuran	ND	ug/kg	380		1.1 10/16/04 20:29	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	380		1.1 10/16/04 20:29	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	750		1.1 10/16/04 20:29	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	380		1.1 10/16/04 20:29	BET	120-83-2		
Diethylphthalate	ND	ug/kg	380		1.1 10/16/04 20:29	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	380		1.1 10/16/04 20:29	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	380		1.1 10/16/04 20:29	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	380		1.1 10/16/04 20:29	BET	84-74-2		
4,6-Dinitro-2-methylphenol	ND	ug/kg	380		1.1 10/16/04 20:29	BET	534-52-1		

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Asheville Certification IDs
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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844400 Project Sample Number: 9279179-004 Date Collected: 10/14/04 13:00
Client Sample ID: LB137SB004 Matrix: Soil Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
2,4-Dinitrophenol	ND	ug/kg	1900	1.1	10/16/04 20:29	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	380	1.1	10/16/04 20:29	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	380	1.1	10/16/04 20:29	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	380	1.1	10/16/04 20:29	BET	117-81-7		
Fluoranthene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	206-44-0		
Fluorene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	77-47-4		
Hexachloroethane	ND	ug/kg	380	1.1	10/16/04 20:29	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	193-39-5		
Isophorone	ND	ug/kg	380	1.1	10/16/04 20:29	BET	78-59-1		
2-Methylnaphthalene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	380	1.1	10/16/04 20:29	BET	95-48-7		
3&4-Methylphenol	ND	ug/kg	380	1.1	10/16/04 20:29	BET	91-20-3		
Naphthalene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	88-74-4		
2-Nitroaniline	ND	ug/kg	1900	1.1	10/16/04 20:29	BET	99-09-2		
3-Nitroaniline	ND	ug/kg	1900	1.1	10/16/04 20:29	BET	100-01-6		
4-Nitroaniline	ND	ug/kg	380	1.1	10/16/04 20:29	BET	98-95-3		
Nitrobenzene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	88-75-5		
2-Nitrophenol	ND	ug/kg	1900	1.1	10/16/04 20:29	BET	100-02-7		
4-Nitrophenol	ND	ug/kg	380	1.1	10/16/04 20:29	BET	621-64-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	380	1.1	10/16/04 20:29	BET	86-30-6		
N-Nitrosodiphenylamine	ND	ug/kg	1900	1.1	10/16/04 20:29	BET	87-86-5		
Pentachlorophenol	ND	ug/kg	380	1.1	10/16/04 20:29	BET	85-01-8		
Phenanthrene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	108-95-2		
Phenol	ND	ug/kg	380	1.1	10/16/04 20:29	BET	129-00-0		
Pyrene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	120-82-1		
1,2,4-Trichlorobenzene	ND	ug/kg	380	1.1	10/16/04 20:29	BET	95-95-4		
2,4,5-Trichlorophenol	ND	ug/kg	380	1.1	10/16/04 20:29	BET	88-06-2		
2,4,6-Trichlorophenol	ND	ug/kg	380	1.0	10/16/04 20:29	BET	4165-60-0		
Nitrobenzene-d5 (S)	19	%		1.0	10/16/04 20:29	BET	321-60-8		
2-Fluorobiphenyl (S)	53	%		1.0	10/16/04 20:29	BET	1718-51-0		
Terphenyl-d14 (S)	90	%		1.0	10/16/04 20:29	BET	4165-62-2		
Phenol-d5 (S)	57	%		1.0	10/16/04 20:29	BET	367-12-4		
2-Fluorophenol (S)	53	%		1.0	10/16/04 20:29	BET			
2,4,6-Tribromophenol (S)	61	%							

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844400
Client Sample ID: LB137SB004

Project Sample Number: 9279179-004
Matrix: Soil

Date Collected: 10/14/04 13:00
Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
Date Extracted	10/15/04				10/15/04				

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level Method: EPA 8260

Acetone	2000	ug/kg	110	1.1	10/16/04 19:35 MSF	67-64-1	2,3
Benzene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	71-43-2	
Bromobenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	108-86-1	
Bromochloromethane	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	74-97-5	
Bromodichloromethane	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	75-27-4	
Bromoform	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	75-25-2	
Bromomethane	ND	ug/kg	11.	1.1	10/16/04 19:35 MSF	74-83-9	
2-Butanone (MEK)	ND	ug/kg	110	1.1	10/16/04 19:35 MSF	78-93-3	
n-Butylbenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	98-06-6	
Carbon tetrachloride	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	56-23-5	
Chlorobenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	108-90-7	
Chloroethane	ND	ug/kg	11.	1.1	10/16/04 19:35 MSF	75-00-3	
Chloroform	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	67-66-3	
Chloromethane	ND	ug/kg	11.	1.1	10/16/04 19:35 MSF	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	96-12-8	
Dibromochloromethane	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	106-93-4	
Dibromomethane	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	106-46-7	
Dichlorodifluoromethane	100	ug/kg	11.	1.1	10/16/04 19:35 MSF	75-71-8	2
1,1-Dichloroethane	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	107-06-2	
1,1-Dichloroethene	7.7	ug/kg	5.7	1.1	10/16/04 19:35 MSF	75-35-4	2
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.7	1.1	10/16/04 19:35 MSF	563-58-6	

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

Lab Sample No: 924844400
Client Sample ID: LB137SB004

Project Sample Number: 9279179-004
Matrix: Soil

Date Collected: 10/14/04 13:00
Date Received: 10/15/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
cis-1,3-Dichloropropene	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	10061-02-6		
Diisopropyl ether	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	108-20-3		
Ethylbenzene	47.	ug/kg	5.7	1.1	10/16/04 19:35	MSF	100-41-4	2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	87-68-3		
2-Hexanone	ND	ug/kg	57.	1.1	10/16/04 19:35	MSF	591-78-6		
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	98-82-8		
p-Isopropyltoluene	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	99-87-6		
Methylene chloride	200	ug/kg	5.7	1.1	10/16/04 19:35	MSF	75-09-2	2,4	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	57.	1.1	10/16/04 19:35	MSF	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	1634-04-4		
Naphthalene	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	91-20-3		
n-Propylbenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	103-65-1		
Styrene	7.3	ug/kg	5.7	1.1	10/16/04 19:35	MSF	100-42-5	2	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	79-34-5		
Tetrachloroethene	16.	ug/kg	5.7	1.1	10/16/04 19:35	MSF	127-18-4	2	
Toluene	360	ug/kg	5.7	1.1	10/16/04 19:35	MSF	108-88-3	2,3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	120-82-1		
1,1,1-Trichloroethane	160	ug/kg	5.7	1.1	10/16/04 19:35	MSF	71-55-6	2	
1,1,2-Trichloroethane	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	79-00-5		
Trichloroethene	1400	ug/kg	5.7	1.1	10/16/04 19:35	MSF	79-01-6	2,3	
Trichlorofluoromethane	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	96-18-4		
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	1.1	10/16/04 19:35	MSF	108-67-8		
Vinyl acetate	ND	ug/kg	57.	1.1	10/16/04 19:35	MSF	108-05-4		
Vinyl chloride	ND	ug/kg	11.	1.1	10/16/04 19:35	MSF	75-01-4		
Xylene (Total)	150	ug/kg	5.7	1.1	10/16/04 19:35	MSF	1330-20-7		
m&p-Xylene	120	ug/kg	11.	1.1	10/16/04 19:35	MSF		2	
o-Xylene	28.	ug/kg	5.7	1.1	10/16/04 19:35	MSF	95-47-6	2	
Toluene-d8 (S)	98	%		1.0	10/16/04 19:35	MSF	2037-26-5		
4-Bromofluorobenzene (S)	85	%		1.0	10/16/04 19:35	MSF	460-00-4		
Dibromofluoromethane (S)	229	%		1.0	10/16/04 19:35	MSF	1868-53-7	5	
1,2-Dichloroethane-d4 (S)	223	%		1.0	10/16/04 19:35	MSF	17060-07-0	5	

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Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

- ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
(S) Surrogate
[1] The reported result may be biased high due to carryover of the sample analyzed immediately prior on the instrument.
[2] The reported result may be biased high due to matrix interference with the internal standard. This was confirmed by reanalysis of the sample.
[3] Compound concentration exceeds the calibration range of the instrument (CLP E-Flag).
[4] Common laboratory contaminant.
[5] High surrogate recovery was confirmed as a matrix effect by a second analysis.

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Charlotte Certification IDs
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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

QC Batch: 112235
QC Batch Method: EPA 3545
Associated Lab Samples: 924844376 924844384 924844392 924844400

Analysis Method: EPA 8270
Analysis Description: Semivolatile Organics

METHOD BLANK: 924847171
Associated Lab Samples: 924844376 924844384 924844392 924844400

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acenaphthene	ug/kg	ND	330	
Acenaphthylene	ug/kg	ND	330	
Anthracene	ug/kg	ND	330	
Benzo(k)fluoranthene	ug/kg	ND	330	
Benzo(b)fluoranthene	ug/kg	ND	330	
Benzo(a)anthracene	ug/kg	ND	330	
Benzoic acid	ug/kg	ND	1600	
Benzo(g,h,i)perylene	ug/kg	ND	330	
Benzyl alcohol	ug/kg	ND	660	
Benzo(a)pyrene	ug/kg	ND	330	
4-Bromophenylphenyl ether	ug/kg	ND	330	
Butylbenzylphthalate	ug/kg	ND	330	
4-Chloro-3-methylphenol	ug/kg	ND	660	
4-Chloroaniline	ug/kg	ND	660	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	
bis(2-Chloroethyl) ether	ug/kg	ND	330	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	
2-Chloronaphthalene	ug/kg	ND	330	
2-Chlorophenol	ug/kg	ND	330	
4-Chlorophenylphenyl ether	ug/kg	ND	330	
Chrysene	ug/kg	ND	330	
Dibenz(a,h)anthracene	ug/kg	ND	330	
Dibenzofuran	ug/kg	ND	330	
1,2-Dichlorobenzene	ug/kg	ND	330	
1,3-Dichlorobenzene	ug/kg	ND	330	
1,4-Dichlorobenzene	ug/kg	ND	330	
3,3'-Dichlorobenzidine	ug/kg	ND	660	
2,4-Dichlorophenol	ug/kg	ND	330	
Diethylphthalate	ug/kg	ND	330	
2,4-Dimethylphenol	ug/kg	ND	330	
Dimethylphthalate	ug/kg	ND	330	

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Charlotte Certification IDs
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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

METHOD BLANK: 924847171
Associated Lab Samples: 924844376 924844384 924844392 924844400

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Di-n-butylphthalate	ug/kg	ND	330	
4,6-Dinitro-2-methylphenol	ug/kg	ND	330	
2,4-Dinitrophenol	ug/kg	ND	1600	
2,4-Dinitrotoluene	ug/kg	ND	330	
2,6-Dinitrotoluene	ug/kg	ND	330	
Di-n-octylphthalate	ug/kg	ND	330	
1,2-Diphenylhydrazine	ug/kg	ND	330	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Fluorene	ug/kg	ND	330	
Hexachloro-1,3-butadiene	ug/kg	ND	330	
Hexachlorobenzene	ug/kg	ND	330	
Hexachlorocyclopentadiene	ug/kg	ND	330	
Hexachloroethane	ug/kg	ND	330	
ndeno(1,2,3-cd)pyrene	ug/kg	ND	330	
sophorone	ug/kg	ND	330	
2-Methylnaphthalene	ug/kg	ND	330	
2-Methylphenol (o-Cresol)	ug/kg	ND	330	
3&4-Methylphenol	ug/kg	ND	330	
Naphthalene	ug/kg	ND	1600	
2-Nitroaniline	ug/kg	ND	1600	
3-Nitroaniline	ug/kg	ND	1600	
4-Nitroaniline	ug/kg	ND	330	
Nitrobenzene	ug/kg	ND	330	
2-Nitrophenol	ug/kg	ND	1600	
4-Nitrophenol	ug/kg	ND	330	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	1600	
Pentachlorophenol	ug/kg	ND	330	
Phenanthrene	ug/kg	ND	330	
Phenol	ug/kg	ND	330	
Pyrene	ug/kg	ND	330	
1,2,4-Trichlorobenzene	ug/kg	ND	330	
2,4,5-Trichlorophenol	ug/kg	ND	330	
2,4,6-Trichlorophenol	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	79		

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
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FL NELAP E87627

QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

METHOD BLANK: 924847171
Associated Lab Samples: 924844376 924844384 924844392 924844400

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2-Fluorobiphenyl (S)	%	79		
Terphenyl-d14 (S)	%	95		
Phenol-d5 (S)	%	78		
2-Fluorophenol (S)	%	71		
2,4,6-Tribromophenol (S)	%	75		

LABORATORY CONTROL SAMPLE: 924847189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Acenaphthene	ug/kg	1667.00	1599	96	
Acenaphthylene	ug/kg	1667.00	1694	102	
anthracene	ug/kg	1667.00	1753	105	
benzo(k)fluoranthene	ug/kg	1667.00	1615	97	
Benzo(b)fluoranthene	ug/kg	1667.00	1619	97	
Benzo(a)anthracene	ug/kg	1667.00	1541	92	
Benzoic acid	ug/kg	1667.00	1026	62	
Benzo(g,h,i)perylene	ug/kg	1667.00	1058	64	
Benzyl alcohol	ug/kg	1667.00	1240	74	
Benzo(a)pyrene	ug/kg	1667.00	1654	99	
4-Bromophenylphenyl ether	ug/kg	1667.00	1688	101	
Butylbenzylphthalate	ug/kg	1667.00	1619	97	
4-Chloro-3-methylphenol	ug/kg	1667.00	1643	99	
4-Chloroaniline	ug/kg	1667.00	383.1	23	
bis(2-Chloroethoxy)methane	ug/kg	1667.00	1507	90	
bis(2-Chloroethyl) ether	ug/kg	1667.00	1485	89	
bis(2-Chloroisopropyl) ether	ug/kg	1667.00	1461	88	
2-Chloronaphthalene	ug/kg	1667.00	1581	95	
2-Chlorophenol	ug/kg	1667.00	1478	89	
4-Chlorophenylphenyl ether	ug/kg	1667.00	1634	98	
Chrysene	ug/kg	1667.00	1581	95	
Dibenz(a,h)anthracene	ug/kg	1667.00	1270	76	
Dibenzofuran	ug/kg	1667.00	1702	102	
1,2-Dichlorobenzene	ug/kg	1667.00	1416	85	
1,3-Dichlorobenzene	ug/kg	1667.00	1399	84	

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
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FL NELAP E87627

QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

LABORATORY CONTROL SAMPLE: 924847189

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
1,4-Dichlorobenzene	ug/kg	1667.00	1436	86	
3,3'-Dichlorobenzidine	ug/kg	3333.00	949.2	28	
2,4-Dichlorophenol	ug/kg	1667.00	1565	94	
Diethylphthalate	ug/kg	1667.00	1765	106	
2,4-Dimethylphenol	ug/kg	1667.00	1507	90	
Dimethylphthalate	ug/kg	1667.00	1705	102	
Di-n-butylphthalate	ug/kg	1667.00	1762	106	
4,6-Dinitro-2-methylphenol	ug/kg	1667.00	1819	109	1
2,4-Dinitrophenol	ug/kg	1667.00	1280	77	
2,4-Dinitrotoluene	ug/kg	1667.00	1750	105	
2,6-Dinitrotoluene	ug/kg	1667.00	1796	108	
Di-n-octylphthalate	ug/kg	1667.00	1603	96	
1,2-Diphenylhydrazine	ug/kg	1667.00	1668	100	
bis(2-Ethylhexyl)phthalate	ug/kg	1667.00	1642	98	
Fluoranthene	ug/kg	1667.00	1651	99	
luorene	ug/kg	1667.00	1609	96	
Hexachloro-1,3-butadiene	ug/kg	1667.00	1365	82	
Hexachlorobenzene	ug/kg	1667.00	1621	97	
Hexachlorocyclopentadiene	ug/kg	1667.00	1623	97	
Hexachloroethane	ug/kg	1667.00	1427	86	
Indeno(1,2,3-cd)pyrene	ug/kg	1667.00	1196	72	
Isophorone	ug/kg	1667.00	2154	129	1
2-Methylnaphthalene	ug/kg	1667.00	1515	91	
2-Methylphenol (o-Cresol)	ug/kg	1667.00	1601	96	
3&4-Methylphenol	ug/kg	1667.00	1592	96	
Naphthalene	ug/kg	1667.00	1365	82	
2-Nitroaniline	ug/kg	1667.00	1467	88	
3-Nitroaniline	ug/kg	1667.00	594.6	36	
4-Nitroaniline	ug/kg	1667.00	1685	101	
Nitrobenzene	ug/kg	1667.00	1496	90	
2-Nitrophenol	ug/kg	1667.00	1480	89	
4-Nitrophenol	ug/kg	1667.00	1695	102	
N-Nitroso-di-n-propylamine	ug/kg	1667.00	1589	95	
N-Nitrosodiphenylamine	ug/kg	1667.00	1920	115	
Pentachlorophenol	ug/kg	1667.00	1525	92	
Phenanthrene	ug/kg	1667.00	1702	102	
Phenol	ug/kg	1667.00	1531	92	

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Charlotte Certification IDs
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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

LABORATORY CONTROL SAMPLE: 924847189

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Pyrene	ug/kg	1667.00	1570	94	
1,2,4-Trichlorobenzene	ug/kg	1667.00	1352	81	
2,4,5-Trichlorophenol	ug/kg	1667.00	1695	102	
2,4,6-Trichlorophenol	ug/kg	1667.00	1637	98	
Nitrobenzene-d5 (S)				94	
2-Fluorobiphenyl (S)				99	
Terphenyl-d14 (S)				104	
Phenol-d5 (S)				92	
2-Fluorophenol (S)				87	
2,4,6-Tribromophenol (S)				103	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 924847197 924847205

Parameter	Units	924805039	Spike	MS	MSD	MS	MSD	RPD	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec		
Acenaphthene	ug/kg	0	2023.00	1813	1945	90	96	7	
4-Chloro-3-methylphenol	ug/kg	0	2023.00	1854	1961	92	97	6	
2-Chlorophenol	ug/kg	0	2023.00	1765	1813	87	90	3	
1,4-Dichlorobenzene	ug/kg	0	2023.00	1732	1774	86	88	2	
2,4-Dinitrotoluene	ug/kg	0	2023.00	1906	2025	94	100	6	
4-Nitrophenol	ug/kg	0	2023.00	1806	1970	89	97	9	
N-Nitroso-di-n-propylamine	ug/kg	0	2023.00	2137	2162	106	107	1	
Pentachlorophenol	ug/kg	0	2023.00	1918	1983	95	98	3	
Phenol	ug/kg	0	2023.00	1935	2008	96	99	4	
Pyrene	ug/kg	203.8	2023.00	2488	2859	113	131	14	1
1,2,4-Trichlorobenzene	ug/kg	0	2023.00	1720	1799	85	89	4	
Nitrobenzene-d5 (S)						106	111		2
2-Fluorobiphenyl (S)						84	88		
Terphenyl-d14 (S)						124	148		2
Phenol-d5 (S)						95	97		
2-Fluorophenol (S)						87	90		
2,4,6-Tribromophenol (S)						91	97		

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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

SAMPLE DUPLICATE: 924847213

Parameter	Units	924805054	DUP	RPD	Footnotes
		Result	Result		
Acenaphthene	ug/kg	ND	ND	NC	
Acenaphthylene	ug/kg	ND	ND	NC	
Anthracene	ug/kg	ND	ND	NC	
Benzo(k)fluoranthene	ug/kg	ND	ND	NC	
Benzo(b)fluoranthene	ug/kg	ND	ND	NC	
Benzo(a)anthracene	ug/kg	ND	ND	NC	
Benzoic acid	ug/kg	ND	ND	NC	
Benzo(g,h,i)perylene	ug/kg	ND	ND	NC	
Benzyl alcohol	ug/kg	ND	ND	NC	
Benzo(a)pyrene	ug/kg	ND	ND	NC	
4-Bromophenylphenyl ether	ug/kg	ND	ND	NC	
Butylbenzylphthalate	ug/kg	2000	1700	19	
4-Chloro-3-methylphenol	ug/kg	ND	ND	NC	
4-Chloroaniline	ug/kg	ND	ND	NC	
bis(2-Chloroethoxy)methane	ug/kg	ND	ND	NC	
is(2-Chloroethyl) ether	ug/kg	ND	ND	NC	
is(2-Chloroisopropyl) ether	ug/kg	ND	ND	NC	
2-Chloronaphthalene	ug/kg	ND	ND	NC	
2-Chlorophenol	ug/kg	ND	ND	NC	
4-Chlorophenylphenyl ether	ug/kg	ND	ND	NC	
Chrysene	ug/kg	ND	ND	NC	
Dibenz(a,h)anthracene	ug/kg	ND	ND	NC	
Dibenzofuran	ug/kg	ND	ND	NC	
1,2-Dichlorobenzene	ug/kg	ND	ND	NC	
1,3-Dichlorobenzene	ug/kg	ND	ND	NC	
1,4-Dichlorobenzene	ug/kg	ND	ND	NC	
3,3'-Dichlorobenzidine	ug/kg	ND	ND	NC	
2,4-Dichlorophenol	ug/kg	ND	ND	NC	
Diethylphthalate	ug/kg	ND	ND	NC	
2,4-Dimethylphenol	ug/kg	ND	ND	NC	
Dimethylphthalate	ug/kg	ND	ND	NC	
Di-n-butylphthalate	ug/kg	ND	ND	NC	
4,6-Dinitro-2-methylphenol	ug/kg	ND	ND	NC	
2,4-Dinitrophenol	ug/kg	ND	ND	NC	
2,4-Dinitrotoluene	ug/kg	ND	ND	NC	
2,6-Dinitrotoluene	ug/kg	ND	ND	NC	
Di-n-octylphthalate	ug/kg	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

SAMPLE DUPLICATE: 924847213

Parameter	Units	924805054	DUP	RPD	Footnotes
		Result	Result		
1,2-Diphenylhydrazine	ug/kg	ND	ND	NC	
bis(2-Ethylhexyl)phthalate	ug/kg	730.0	600.0	18	
Fluoranthene	ug/kg	ND	ND	NC	
Fluorene	ug/kg	ND	ND	NC	
Hexachloro-1,3-butadiene	ug/kg	ND	ND	NC	
Hexachlorobenzene	ug/kg	ND	ND	NC	
Hexachlorocyclopentadiene	ug/kg	ND	ND	NC	
Hexachloroethane	ug/kg	ND	ND	NC	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	ND	NC	
Isophorone	ug/kg	ND	ND	NC	
2-Methylnaphthalene	ug/kg	2400	1900	21	
2-Methylphenol (o-Cresol)	ug/kg	ND	ND	NC	
3&4-Methylphenol	ug/kg	ND	ND	NC	
Naphthalene	ug/kg	690.0	580.0	17	
2-Nitroaniline	ug/kg	ND	ND	NC	
3-Nitroaniline	ug/kg	ND	ND	NC	
4-Nitroaniline	ug/kg	ND	ND	NC	
Nitrobenzene	ug/kg	ND	ND	NC	
2-Nitrophenol	ug/kg	ND	ND	NC	
4-Nitrophenol	ug/kg	ND	ND	NC	
N-Nitroso-di-n-propylamine	ug/kg	ND	ND	NC	
N-Nitrosodiphenylamine	ug/kg	ND	ND	NC	
Pentachlorophenol	ug/kg	ND	ND	NC	
Phenanthrene	ug/kg	560.0	460.0	21	
Phenol	ug/kg	ND	ND	NC	
Pyrene	ug/kg	ND	ND	NC	
1,2,4-Trichlorobenzene	ug/kg	ND	ND	NC	
2,4,5-Trichlorophenol	ug/kg	ND	ND	NC	
2,4,6-Trichlorophenol	ug/kg	ND	ND	NC	
Nitrobenzene-d5 (S)	%	109	95		
2-Fluorobiphenyl (S)	%	84	76		
Terphenyl-d14 (S)	%	124	108		
Phenol-d5 (S)	%	95	80		
2-Fluorophenol (S)	%	86	68		
2,4,6-Tribromophenol (S)	%	90	74		

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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

QC Batch: 112262
QC Batch Method: EPA 8260
Associated Lab Samples: 924844376 924844384

Analysis Method: EPA 8260
Analysis Description: GC/MS VOCs 5035/8260 low level

METHOD BLANK: 924848872
Associated Lab Samples: 924844376 924844384

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/kg	ND	100	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	10.	
2-Butanone (MEK)	ug/kg	ND	100	
n-Butylbenzene	ug/kg	ND	5.0	
sec-Butylbenzene	ug/kg	ND	5.0	
tert-Butylbenzene	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	10.	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	10.	
2-Chlorotoluene	ug/kg	ND	5.0	
4-Chlorotoluene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
Dibromomethane	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	10.	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

METHOD BLANK: 924848872

Associated Lab Samples: 924844376 924844384

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Diisopropyl ether	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	50.	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.	
ethyl-tert-butyl ether	ug/kg	ND	5.0	
aphthalene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
Vinyl acetate	ug/kg	ND	50.	
Vinyl chloride	ug/kg	ND	10.	
Xylene (Total)	ug/kg	ND	5.0	
m&p-Xylene	ug/kg	ND	10.	
o-Xylene	ug/kg	ND	5.0	

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Charlotte Certification IDs
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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

METHOD BLANK: 924848872

Associated Lab Samples: 924844376 924844384

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	102		
1,2-Dichloroethane-d4 (S)	%	101		

LABORATORY CONTROL SAMPLE: 924848880

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Acetone	ug/kg	100.00	94.00	94	
Benzene	ug/kg	50.00	44.53	89	
Bromobenzene	ug/kg	50.00	43.37	87	
Bromochloromethane	ug/kg	50.00	46.22	92	
Bromodichloromethane	ug/kg	50.00	45.30	91	
Bromoform	ug/kg	50.00	46.60	93	
Bromomethane	ug/kg	50.00	57.35	115	
2-Butanone (MEK)	ug/kg	100.00	92.97	93	
n-Butylbenzene	ug/kg	50.00	39.89	80	
sec-Butylbenzene	ug/kg	50.00	44.69	89	
tert-Butylbenzene	ug/kg	50.00	44.66	89	
Carbon tetrachloride	ug/kg	50.00	45.15	90	
Chlorobenzene	ug/kg	50.00	43.79	88	
Chloroethane	ug/kg	50.00	58.81	118	
Chloroform	ug/kg	50.00	46.02	92	
Chloromethane	ug/kg	50.00	55.11	110	
2-Chlorotoluene	ug/kg	50.00	43.93	88	
4-Chlorotoluene	ug/kg	50.00	44.92	90	
1,2-Dibromo-3-chloropropane	ug/kg	50.00	45.04	90	
Dibromochloromethane	ug/kg	50.00	44.59	89	
1,2-Dibromoethane (EDB)	ug/kg	50.00	44.25	88	
Dibromomethane	ug/kg	50.00	44.34	89	
1,2-Dichlorobenzene	ug/kg	50.00	45.38	91	
1,3-Dichlorobenzene	ug/kg	50.00	44.04	88	
1,4-Dichlorobenzene	ug/kg	50.00	44.63	89	
Dichlorodifluoromethane	ug/kg	50.00	52.85	106	

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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

LABORATORY CONTROL SAMPLE: 924848880

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
1,1-Dichloroethane	ug/kg	50.00	47.02	94	
1,2-Dichloroethane	ug/kg	50.00	45.26	90	
1,1-Dichloroethene	ug/kg	50.00	45.80	92	
cis-1,2-Dichloroethene	ug/kg	50.00	47.16	94	
trans-1,2-Dichloroethene	ug/kg	50.00	44.66	89	
1,2-Dichloropropane	ug/kg	50.00	44.53	89	
1,3-Dichloropropane	ug/kg	50.00	43.60	87	
2,2-Dichloropropane	ug/kg	50.00	47.08	94	
1,1-Dichloropropene	ug/kg	50.00	43.91	88	
cis-1,3-Dichloropropene	ug/kg	50.00	43.81	88	
trans-1,3-Dichloropropene	ug/kg	50.00	43.28	87	
Diisopropyl ether	ug/kg	50.00	45.69	91	
Ethylbenzene	ug/kg	50.00	43.99	88	
Hexachloro-1,3-butadiene	ug/kg	50.00	44.95	90	
2-Hexanone	ug/kg	100.00	89.60	90	
sopropylbenzene (Cumene)	ug/kg	50.00	46.86	94	
-Isopropyltoluene	ug/kg	50.00	40.27	80	
Methylene chloride	ug/kg	50.00	47.12	94	
4-Methyl-2-pentanone (MIBK)	ug/kg	100.00	92.83	93	
Methyl-tert-butyl ether	ug/kg	50.00	47.71	95	
Naphthalene	ug/kg	50.00	43.10	86	
n-Propylbenzene	ug/kg	50.00	44.51	89	
Styrene	ug/kg	50.00	44.28	89	
1,1,1,2-Tetrachloroethane	ug/kg	50.00	46.19	92	
1,1,2,2-Tetrachloroethane	ug/kg	50.00	45.14	90	
Tetrachloroethene	ug/kg	50.00	44.96	90	
Toluene	ug/kg	50.00	43.69	87	
1,2,3-Trichlorobenzene	ug/kg	50.00	46.89	94	
1,2,4-Trichlorobenzene	ug/kg	50.00	45.08	90	
1,1,1-Trichloroethane	ug/kg	50.00	46.62	93	
1,1,2-Trichloroethane	ug/kg	50.00	45.34	91	
Trichloroethene	ug/kg	50.00	44.07	88	
Trichlorofluoromethane	ug/kg	50.00	54.14	108	
1,2,3-Trichloropropane	ug/kg	50.00	42.92	86	
1,2,4-Trimethylbenzene	ug/kg	50.00	39.93	80	
1,3,5-Trimethylbenzene	ug/kg	50.00	39.75	80	
Vinyl acetate	ug/kg	100.00	83.47	84	

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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

LABORATORY CONTROL SAMPLE: 924848880

<u>Parameter</u>	<u>Units</u>	<u>Spike</u>	<u>LCS</u>	<u>LCS</u>	<u>Footnotes</u>
		<u>Conc.</u>	<u>Result</u>	<u>% Rec</u>	
Vinyl chloride	ug/kg	50.00	55.78	112	
Xylene (Total)	ug/kg	150.00	131.1	87	
m&p-Xylene	ug/kg	100.00	87.66	88	
o-Xylene	ug/kg	50.00	43.46	87	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				99	
Dibromofluoromethane (S)				104	
1,2-Dichloroethane-d4 (S)				101	

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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

QC Batch: 112263
QC Batch Method: EPA 8260
Associated Lab Samples: 924844392 924844400

Analysis Method: EPA 8260
Analysis Description: GC/MS VOCs 5035/8260 low level

METHOD BLANK: 924848898
Associated Lab Samples: 924844392 924844400

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/kg	ND	100	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	10.	
2-Butanone (MEK)	ug/kg	ND	100	
n-Butylbenzene	ug/kg	ND	5.0	
ec-Butylbenzene	ug/kg	ND	5.0	
ert-Butylbenzene	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	10.	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	10.	
2-Chlorotoluene	ug/kg	ND	5.0	
4-Chlorotoluene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
Dibromomethane	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	10.	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	

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NC Wastewater 12
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QUALITY CONTROL DATA

Lab Project Number: 9279179

Client Project ID: UST Removal/04-515-002

METHOD BLANK: 924848898

Associated Lab Samples: 924844392 924844400

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Diisopropyl ether	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	50.	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.	
ethyl-tert-butyl ether	ug/kg	ND	5.0	
aphthalene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
Vinyl acetate	ug/kg	ND	50.	
Vinyl chloride	ug/kg	ND	10.	
Xylene (Total)	ug/kg	ND	5.0	
m&p-Xylene	ug/kg	ND	10.	
o-Xylene	ug/kg	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

METHOD BLANK: 924848898

Associated Lab Samples: 924844392 924844400

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	94		
Dibromofluoromethane (S)	%	103		
1,2-Dichloroethane-d4 (S)	%	100		

LABORATORY CONTROL SAMPLE: 924848906

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Acetone	ug/kg	100.00	108.5	108	
Benzene	ug/kg	50.00	43.21	86	
Bromobenzene	ug/kg	50.00	47.30	95	
Bromochloromethane	ug/kg	50.00	45.94	92	
romodichloromethane	ug/kg	50.00	43.81	88	
romoform	ug/kg	50.00	46.14	92	
Bromomethane	ug/kg	50.00	48.89	98	
2-Butanone (MEK)	ug/kg	100.00	97.89	98	
n-Butylbenzene	ug/kg	50.00	38.49	77	
sec-Butylbenzene	ug/kg	50.00	42.97	86	
tert-Butylbenzene	ug/kg	50.00	43.73	88	
Carbon tetrachloride	ug/kg	50.00	44.18	88	
Chlorobenzene	ug/kg	50.00	42.81	86	
Chloroethane	ug/kg	50.00	53.26	107	
Chloroform	ug/kg	50.00	45.17	90	
Chloromethane	ug/kg	50.00	52.72	105	
2-Chlorotoluene	ug/kg	50.00	42.52	85	
4-Chlorotoluene	ug/kg	50.00	43.40	87	
1,2-Dibromo-3-chloropropane	ug/kg	50.00	45.14	90	
Dibromochloromethane	ug/kg	50.00	44.31	89	
1,2-Dibromoethane (EDB)	ug/kg	50.00	44.33	89	
Dibromomethane	ug/kg	50.00	43.85	88	
1,2-Dichlorobenzene	ug/kg	50.00	44.46	89	
1,3-Dichlorobenzene	ug/kg	50.00	42.19	84	
1,4-Dichlorobenzene	ug/kg	50.00	43.54	87	
Dichlorodifluoromethane	ug/kg	50.00	50.79	102	

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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

LABORATORY CONTROL SAMPLE: 924848906

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
1,1-Dichloroethane	ug/kg	50.00	46.42	93	
1,2-Dichloroethane	ug/kg	50.00	44.98	90	
1,1-Dichloroethene	ug/kg	50.00	44.52	89	
cis-1,2-Dichloroethene	ug/kg	50.00	45.24	90	
trans-1,2-Dichloroethene	ug/kg	50.00	43.76	88	
1,2-Dichloropropane	ug/kg	50.00	43.73	88	
1,3-Dichloropropane	ug/kg	50.00	43.48	87	
2,2-Dichloropropane	ug/kg	50.00	45.74	92	
1,1-Dichloropropene	ug/kg	50.00	43.05	86	
cis-1,3-Dichloropropene	ug/kg	50.00	43.03	86	
trans-1,3-Dichloropropene	ug/kg	50.00	43.44	87	
Diisopropyl ether	ug/kg	50.00	45.01	90	
Ethylbenzene	ug/kg	50.00	42.87	86	
Hexachloro-1,3-butadiene	ug/kg	50.00	42.78	86	
2-Hexanone	ug/kg	100.00	95.39	95	
sopropylbenzene (Cumene)	ug/kg	50.00	45.34	91	
-Isopropyltoluene	ug/kg	50.00	38.56	77	
Methylene chloride	ug/kg	50.00	46.62	93	
4-Methyl-2-pentanone (MIBK)	ug/kg	100.00	96.14	96	
Methyl-tert-butyl ether	ug/kg	50.00	48.91	98	
Naphthalene	ug/kg	50.00	42.63	85	
n-Propylbenzene	ug/kg	50.00	42.86	86	
Styrene	ug/kg	50.00	43.60	87	
1,1,1,2-Tetrachloroethane	ug/kg	50.00	44.83	90	
1,1,2,2-Tetrachloroethane	ug/kg	50.00	45.34	91	
Tetrachloroethene	ug/kg	50.00	42.95	86	
Toluene	ug/kg	50.00	42.58	85	
1,2,3-Trichlorobenzene	ug/kg	50.00	45.75	92	
1,2,4-Trichlorobenzene	ug/kg	50.00	42.99	86	
1,1,1-Trichloroethane	ug/kg	50.00	45.98	92	
1,1,2-Trichloroethane	ug/kg	50.00	46.16	92	
Trichloroethene	ug/kg	50.00	42.96	86	
Trichlorofluoromethane	ug/kg	50.00	51.56	103	
1,2,3-Trichloropropane	ug/kg	50.00	44.10	88	
1,2,4-Trimethylbenzene	ug/kg	50.00	38.58	77	
1,3,5-Trimethylbenzene	ug/kg	50.00	38.40	77	
Vinyl acetate	ug/kg	100.00	81.28	81	

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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

LABORATORY CONTROL SAMPLE: 924848906

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Vinyl chloride	ug/kg	50.00	52.63	105	
Xylene (Total)	ug/kg	150.00	127.8	85	
m&p-Xylene	ug/kg	100.00	85.17	85	
o-Xylene	ug/kg	50.00	42.58	85	
Toluene-d8 (S)				99	
4-Bromofluorobenzene (S)				100	
Dibromofluoromethane (S)				104	
1,2-Dichloroethane-d4 (S)				102	

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QUALITY CONTROL DATA

Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

QC Batch: 112259	Analysis Method: % Moisture			
QC Batch Method:	Analysis Description: Percent Moisture			
Associated Lab Samples:	924844376	924844384	924844392	924844400

SAMPLE DUPLICATE: 924848856

<u>Parameter</u>	<u>Units</u>	924847486 <u>Result</u>	DUP <u>Result</u>	<u>RPD</u>	<u>Footnotes</u>
Percent Moisture	%	1.000	1.600	44	

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Lab Project Number: 9279179
Client Project ID: UST Removal/04-515-002

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
(S) Surrogate
[1] Recovery falls outside of QC limits, however, this compound is not found in the associated samples.
[2] The surrogate and/or spike recovery was outside acceptance limits.

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October 27, 2004

Mr. Brian Crawford
Advent Environmental
498 Wando Pk Blvd
Suite 500
Mt. Pleasant, SC 29464

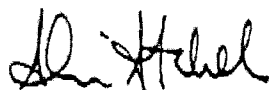
RE: Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

Dear Mr. Crawford:

Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2004. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,



Sherri Stabel
Sherri.Stabel@pacelabs.com
Project Manager

Enclosures

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Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

Solid results are reported on a dry weight basis

Lab Sample No: 924878572 Project Sample Number: 9279786-001 Date Collected: 10/21/04 11:10
Client Sample ID: LB137SB005 Matrix: Soil Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	Reg/Lmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	17.1	%		1.0	10/25/04 08:50	DHW			

GC/MS Semivolatiles

Semivolatile Organics

Prep/Method: EPA 3545 / EPA 8270

Acenaphthene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	83-32-9		
Acenaphthylene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	208-96-8		
Anthracene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	120-12-7		
Benzo(k)fluoranthene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	56-55-3		
Benzoic acid	ND	ug/kg	3800	2.3	10/26/04 11:10	BET	65-85-0		
Benzo(g,h,i)perylene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	191-24-2		
Benzyl alcohol	ND	ug/kg	1500	2.3	10/26/04 11:10	BET	100-51-6		
Benzo(a)pyrene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	50-32-8		
4-Bromophenylphenyl ether	ND	ug/kg	760	2.3	10/26/04 11:10	BET	101-55-3		
Butylbenzylphthalate	ND	ug/kg	760	2.3	10/26/04 11:10	BET	85-68-7		
4-Chloro-3-methylphenol	ND	ug/kg	1500	2.3	10/26/04 11:10	BET	59-50-7		
4-Chloroaniline	ND	ug/kg	1500	2.3	10/26/04 11:10	BET	106-47-8		
bis(2-Chloroethoxy)methane	ND	ug/kg	760	2.3	10/26/04 11:10	BET	111-91-1		
bis(2-Chloroethyl) ether	ND	ug/kg	760	2.3	10/26/04 11:10	BET	111-44-4		
bis(2-Chloroisopropyl) ether	ND	ug/kg	760	2.3	10/26/04 11:10	BET	39638-32-9		
2-Chloronaphthalene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	91-58-7		
2-Chlorophenol	ND	ug/kg	760	2.3	10/26/04 11:10	BET	95-57-8		
4-Chlorophenylphenyl ether	ND	ug/kg	760	2.3	10/26/04 11:10	BET	7005-72-3		
Chrysene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	53-70-3		
Dibenzofuran	ND	ug/kg	760	2.3	10/26/04 11:10	BET	132-64-9		
1,2-Dichlorobenzene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	106-46-7		
3,3'-Dichlorobenzidine	ND	ug/kg	1500	2.3	10/26/04 11:10	BET	91-94-1		
2,4-Dichlorophenol	ND	ug/kg	760	2.3	10/26/04 11:10	BET	120-83-2		
Diethylphthalate	ND	ug/kg	760	2.3	10/26/04 11:10	BET	84-66-2		
2,4-Dimethylphenol	ND	ug/kg	760	2.3	10/26/04 11:10	BET	105-67-9		
Dimethylphthalate	ND	ug/kg	760	2.3	10/26/04 11:10	BET	131-11-3		
Di-n-butylphthalate	ND	ug/kg	760	2.3	10/26/04 11:10	BET	84-74-2		

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Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

Lab Sample No: 924878572
Client Sample ID: LB137SB005

Project Sample Number: 9279786-001
Matrix: Soil
Date Collected: 10/21/04 11:10
Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
4,6-Dinitro-2-methylphenol	ND	ug/kg	760	2.3	10/26/04 11:10	BET	534-52-1		
2,4-Dinitrophenol	ND	ug/kg	3800	2.3	10/26/04 11:10	BET	51-28-5		
2,4-Dinitrotoluene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	121-14-2		
2,6-Dinitrotoluene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	606-20-2		
Di-n-octylphthalate	ND	ug/kg	760	2.3	10/26/04 11:10	BET	117-84-0		
1,2-Diphenylhydrazine	ND	ug/kg	760	2.3	10/26/04 11:10	BET	122-66-7		
bis(2-Ethylhexyl)phthalate	ND	ug/kg	760	2.3	10/26/04 11:10	BET	117-81-7		
Fluoranthene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	206-44-0		
Fluorene	790	ug/kg	760	2.3	10/26/04 11:10	BET	86-73-7		
Hexachloro-1,3-butadiene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	87-68-3		
Hexachlorobenzene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	118-74-1		
Hexachlorocyclopentadiene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	77-47-4		
Hexachloroethane	ND	ug/kg	760	2.3	10/26/04 11:10	BET	67-72-1		
Indeno(1,2,3-cd)pyrene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	193-39-5		
Isophorone	ND	ug/kg	760	2.3	10/26/04 11:10	BET	78-59-1		
2-Methylnaphthalene	6600	ug/kg	760	2.3	10/26/04 11:10	BET	91-57-6		
2-Methylphenol (o-Cresol)	ND	ug/kg	760	2.3	10/26/04 11:10	BET	95-48-7		
3,4-Methylphenol	ND	ug/kg	760	2.3	10/26/04 11:10	BET	91-20-3		
Naphthalene	2100	ug/kg	760	2.3	10/26/04 11:10	BET	88-74-4		
2-Nitroaniline	ND	ug/kg	3800	2.3	10/26/04 11:10	BET	99-09-2		
3-Nitroaniline	ND	ug/kg	3800	2.3	10/26/04 11:10	BET	100-01-6		
4-Nitroaniline	ND	ug/kg	760	2.3	10/26/04 11:10	BET	98-95-3		
Nitrobenzene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	88-75-5		
2-Nitrophenol	ND	ug/kg	3800	2.3	10/26/04 11:10	BET	100-02-7		
4-Nitrophenol	ND	ug/kg	760	2.3	10/26/04 11:10	BET	621-64-7		
N-Nitroso-di-n-propylamine	ND	ug/kg	760	2.3	10/26/04 11:10	BET	86-30-6		
N-Nitrosodiphenylamine	ND	ug/kg	3800	2.3	10/26/04 11:10	BET	87-86-5		
Pentachlorophenol	ND	ug/kg	760	2.3	10/26/04 11:10	BET	85-01-8		
Phenanthrene	1200	ug/kg	760	2.3	10/26/04 11:10	BET	108-95-2		
Phenol	ND	ug/kg	760	2.3	10/26/04 11:10	BET	129-00-0		
Pyrene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	120-82-1		
1,2,4-Trichlorobenzene	ND	ug/kg	760	2.3	10/26/04 11:10	BET	95-95-4		
2,4,5-Trichlorophenol	ND	ug/kg	760	2.3	10/26/04 11:10	BET	88-06-2		
2,4,6-Trichlorophenol	14	%		1.0	10/26/04 11:10	BET	4165-60-0		
Nitrobenzene-d5 (S)	48	%		1.0	10/26/04 11:10	BET	321-60-8		
2-Fluorobiphenyl (S)	76	%		1.0	10/26/04 11:10	BET	1718-51-0		
Terphenyl-d14 (S)	36	%		1.0	10/26/04 11:10	BET	4165-62-2	1	
Phenol-d5 (S)	33	%		1.0	10/26/04 11:10	BET	367-12-4		
2-Fluorophenol (S)									

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NC Wastewater 12
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Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

Lab Sample No: 924878572 Project Sample Number: 9279786-001 Date Collected: 10/21/04 11:10
Client Sample ID: LB137SB005 Matrix: Soil Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
2,4,6-Tribromophenol (S)	40	%		1.0	10/26/04 11:10	BET			
Date Extracted	10/23/04				10/23/04				

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level Method: EPA 8260

Acetone	ND	ug/kg	2900	28.9	10/24/04 18:17	MSF	67-64-1		
Benzene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	71-43-2		
Bromobenzene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	108-86-1		
Bromochloromethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	74-97-5		
Bromodichloromethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	75-27-4		
Bromoform	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	75-25-2		
Bromomethane	ND	ug/kg	290	28.9	10/24/04 18:17	MSF	74-83-9		
2-Butanone (MEK)	ND	ug/kg	2900	28.9	10/24/04 18:17	MSF	78-93-3		
n-Butylbenzene	1400	ug/kg	140	28.9	10/24/04 18:17	MSF	104-51-8		
sec-Butylbenzene	1400	ug/kg	140	28.9	10/24/04 18:17	MSF	135-98-8		
tert-Butylbenzene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	98-06-6		
Carbon tetrachloride	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	56-23-5		
Chlorobenzene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	108-90-7		
Chloroethane	ND	ug/kg	290	28.9	10/24/04 18:17	MSF	75-00-3		
Chloroform	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	67-66-3		
Chloromethane	ND	ug/kg	290	28.9	10/24/04 18:17	MSF	74-87-3		
2-Chlorotoluene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	95-49-8		
4-Chlorotoluene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	106-43-4		
1,2-Dibromo-3-chloropropane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	96-12-8		
Dibromochloromethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	106-93-4		
Dibromomethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	74-95-3		
1,2-Dichlorobenzene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	95-50-1		
1,3-Dichlorobenzene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	541-73-1		
1,4-Dichlorobenzene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	106-46-7		
Dichlorodifluoromethane	ND	ug/kg	290	28.9	10/24/04 18:17	MSF	75-71-8		
1,1-Dichloroethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	75-34-3		
1,2-Dichloroethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	107-06-2		
1,1-Dichloroethene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	75-35-4		
cis-1,2-Dichloroethene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	156-59-2		
trans-1,2-Dichloroethene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	156-60-5		
1,2-Dichloropropane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	78-87-5		
1,3-Dichloropropane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	142-28-9		
2,2-Dichloropropane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	594-20-7		

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Lab Project Number: 9279786

Client Project ID: Laurel By 04-515-50

Lab Sample No: 924878572
Client Sample ID: LB137SB005

Project Sample Number: 9279786-001
Matrix: Soil

Date Collected: 10/21/04 11:10
Date Received: 10/22/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
1,1-Dichloropropene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	563-58-6		
cis-1,3-Dichloropropene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	10061-02-6		
Diisopropyl ether	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	108-20-3		
Ethylbenzene	1400	ug/kg	140	28.9	10/24/04 18:17	MSF	100-41-4		
Hexachloro-1,3-butadiene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	87-68-3		
2-Hexanone	ND	ug/kg	1400	28.9	10/24/04 18:17	MSF	591-78-6		
Isopropylbenzene (Cumene)	750	ug/kg	140	28.9	10/24/04 18:17	MSF	98-82-8		
p-Isopropyltoluene	710	ug/kg	140	28.9	10/24/04 18:17	MSF	99-87-6		
Methylene chloride	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	1400	28.9	10/24/04 18:17	MSF	108-10-1		
Methyl-tert-butyl ether	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	1634-04-4		
Naphthalene	13000	ug/kg	720	145	10/24/04 18:17	MSF	91-20-3		
n-Propylbenzene	1500	ug/kg	140	28.9	10/24/04 18:17	MSF	103-65-1		
Styrene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	79-34-5		
Tetrachloroethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	127-18-4		
Toluene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	108-88-3		
1,2,3-Trichlorobenzene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	87-61-6		
1,2,4-Trichlorobenzene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	120-82-1		
1,1,1-Trichloroethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	71-55-6		
1,1,2-Trichloroethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	79-00-5		
Trichloroethene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	79-01-6		
Trichlorofluoromethane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	75-69-4		
1,2,3-Trichloropropane	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	96-18-4		
1,2,4-Trimethylbenzene	5700	ug/kg	140	28.9	10/24/04 18:17	MSF	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	108-67-8		
Vinyl acetate	ND	ug/kg	1400	28.9	10/24/04 18:17	MSF	108-05-4		
Vinyl chloride	ND	ug/kg	290	28.9	10/24/04 18:17	MSF	75-01-4		
Xylene (Total)	760	ug/kg	2.9	0.6	10/24/04 18:17	MSF	1330-20-7		
m&p-Xylene	760	ug/kg	290	28.9	10/24/04 18:17	MSF			
o-Xylene	ND	ug/kg	140	28.9	10/24/04 18:17	MSF	95-47-6		
Toluene-d8 (S)	103	%		1.0	10/24/04 18:17	MSF	2037-26-5		
4-Bromofluorobenzene (S)	95	%		1.0	10/24/04 18:17	MSF	460-00-4		
Dibromofluoromethane (S)	98	%		1.0	10/24/04 18:17	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	94	%		1.0	10/24/04 18:17	MSF	17060-07-0		

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Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate
[1]	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of the two remaining acid surrogates.

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QUALITY CONTROL DATA

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

QC Batch: 112850
QC Batch Method: EPA 3545
Associated Lab Samples: 924878572

Analysis Method: EPA 8270
Analysis Description: Semivolatile Organics

METHOD BLANK: 924882814
Associated Lab Samples: 924878572

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acenaphthene	ug/kg	ND	330	
Acenaphthylene	ug/kg	ND	330	
Anthracene	ug/kg	ND	330	
Benzo(k)fluoranthene	ug/kg	ND	330	
Benzo(b)fluoranthene	ug/kg	ND	330	
Benzo(a)anthracene	ug/kg	ND	330	
Benzoic acid	ug/kg	ND	1600	
Benzo(g,h,i)perylene	ug/kg	ND	330	
Benzyl alcohol	ug/kg	ND	660	
benzo(a)pyrene	ug/kg	ND	330	
-Bromophenylphenyl ether	ug/kg	ND	330	
Butylbenzylphthalate	ug/kg	ND	330	
4-Chloro-3-methylphenol	ug/kg	ND	660	
4-Chloroaniline	ug/kg	ND	660	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	
bis(2-Chloroethyl) ether	ug/kg	ND	330	
bis(2-Chloroisopropyl) ether	ug/kg	ND	330	
2-Chloronaphthalene	ug/kg	ND	330	
2-Chlorophenol	ug/kg	ND	330	
4-Chlorophenylphenyl ether	ug/kg	ND	330	
Chrysene	ug/kg	ND	330	
Dibenz(a,h)anthracene	ug/kg	ND	330	
Dibenzofuran	ug/kg	ND	330	
1,2-Dichlorobenzene	ug/kg	ND	330	
1,3-Dichlorobenzene	ug/kg	ND	330	
1,4-Dichlorobenzene	ug/kg	ND	330	
3,3'-Dichlorobenzidine	ug/kg	ND	660	
2,4-Dichlorophenol	ug/kg	ND	330	
Diethylphthalate	ug/kg	ND	330	
2,4-Dimethylphenol	ug/kg	ND	330	
Dimethylphthalate	ug/kg	ND	330	

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QUALITY CONTROL DATA

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

METHOD BLANK: 924882814
Associated Lab Samples: 924878572

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Di-n-butylphthalate	ug/kg	ND	330	
4,6-Dinitro-2-methylphenol	ug/kg	ND	330	
2,4-Dinitrophenol	ug/kg	ND	1600	
2,4-Dinitrotoluene	ug/kg	ND	330	
2,6-Dinitrotoluene	ug/kg	ND	330	
Di-n-octylphthalate	ug/kg	ND	330	
1,2-Diphenylhydrazine	ug/kg	ND	330	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	
Fluoranthene	ug/kg	ND	330	
Fluorene	ug/kg	ND	330	
Hexachloro-1,3-butadiene	ug/kg	ND	330	
Hexachlorobenzene	ug/kg	ND	330	
Hexachlorocyclopentadiene	ug/kg	ND	330	
Hexachloroethane	ug/kg	ND	330	
ndeno(1,2,3-cd)pyrene	ug/kg	ND	330	
sophorone	ug/kg	ND	330	
2-Methylnaphthalene	ug/kg	ND	330	
2-Methylphenol (o-Cresol)	ug/kg	ND	330	
3&4-Methylphenol	ug/kg	ND	330	
Naphthalene	ug/kg	ND	1600	
2-Nitroaniline	ug/kg	ND	1600	
3-Nitroaniline	ug/kg	ND	1600	
4-Nitroaniline	ug/kg	ND	330	
Nitrobenzene	ug/kg	ND	330	
2-Nitrophenol	ug/kg	ND	1600	
4-Nitrophenol	ug/kg	ND	330	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	
N-Nitrosodiphenylamine	ug/kg	ND	1600	
Pentachlorophenol	ug/kg	ND	330	
Phenanthrene	ug/kg	ND	330	
Phenol	ug/kg	ND	330	
Pyrene	ug/kg	ND	330	
1,2,4-Trichlorobenzene	ug/kg	ND	330	
2,4,5-Trichlorophenol	ug/kg	ND	330	
2,4,6-Trichlorophenol	ug/kg	ND	330	
Nitrobenzene-d5 (S)	%	70		

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QUALITY CONTROL DATA

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

METHOD BLANK: 924882814
Associated Lab Samples: 924878572

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
2-Fluorobiphenyl (S)	%	74		
Terphenyl-d14 (S)	%	80		
Phenol-d5 (S)	%	73		
2-Fluorophenol (S)	%	72		
2,4,6-Tribromophenol (S)	%	80		

LABORATORY CONTROL SAMPLE: 924882822

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Acenaphthene	ug/kg	1667.00	1239	74	
Acenaphthylene	ug/kg	1667.00	1245	75	
Anthracene	ug/kg	1667.00	1403	84	
enzo(k)fluoranthene	ug/kg	1667.00	1203	72	
enzo(b)fluoranthene	ug/kg	1667.00	1196	72	
Benzo(a)anthracene	ug/kg	1667.00	1194	72	
Benzoic acid	ug/kg	1667.00	531.4	32	
Benzo(g,h,i)perylene	ug/kg	1667.00	1128	68	
Benzyl alcohol	ug/kg	1667.00	1162	70	
Benzo(a)pyrene	ug/kg	1667.00	1257	75	
4-Bromophenylphenyl ether	ug/kg	1667.00	1369	82	
Butylbenzylphthalate	ug/kg	1667.00	1213	73	
4-Chloro-3-methylphenol	ug/kg	1667.00	1414	85	
4-Chloroaniline	ug/kg	1667.00	946.6	57	
bis(2-Chloroethoxy)methane	ug/kg	1667.00	1159	70	
bis(2-Chloroethyl) ether	ug/kg	1667.00	1110	67	
bis(2-Chloroisopropyl) ether	ug/kg	1667.00	1107	66	
2-Chloronaphthalene	ug/kg	1667.00	1285	77	
2-Chlorophenol	ug/kg	1667.00	1154	69	
4-Chlorophenylphenyl ether	ug/kg	1667.00	1319	79	
Chrysene	ug/kg	1667.00	1243	75	
Dibenz(a,h)anthracene	ug/kg	1667.00	1299	78	
Dibenzofuran	ug/kg	1667.00	1317	79	
1,2-Dichlorobenzene	ug/kg	1667.00	1071	64	
1,3-Dichlorobenzene	ug/kg	1667.00	1053	63	

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FL NELAP E87627

QUALITY CONTROL DATA

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

LABORATORY CONTROL SAMPLE: 924882822

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
1,4-Dichlorobenzene	ug/kg	1667.00	1025	62	
3,3'-Dichlorobenzidine	ug/kg	3333.00	1056	32	
2,4-Dichlorophenol	ug/kg	1667.00	1197	72	
Diethylphthalate	ug/kg	1667.00	1380	83	
2,4-Dimethylphenol	ug/kg	1667.00	1094	66	
Dimethylphthalate	ug/kg	1667.00	1340	80	
Di-n-butylphthalate	ug/kg	1667.00	1413	85	
4,6-Dinitro-2-methylphenol	ug/kg	1667.00	1323	79	
2,4-Dinitrophenol	ug/kg	1667.00	856.3	51	
2,4-Dinitrotoluene	ug/kg	1667.00	1437	86	
2,6-Dinitrotoluene	ug/kg	1667.00	1471	88	
Di-n-octylphthalate	ug/kg	1667.00	1234	74	
1,2-Diphenylhydrazine	ug/kg	1667.00	1252	75	
bis(2-Ethylhexyl)phthalate	ug/kg	1667.00	1225	74	
Fluoranthene	ug/kg	1667.00	1325	80	
luorene	ug/kg	1667.00	1276	76	
exachloro-1,3-butadiene	ug/kg	1667.00	1106	66	
Hexachlorobenzene	ug/kg	1667.00	1397	84	
Hexachlorocyclopentadiene	ug/kg	1667.00	791.2	48	
Hexachloroethane	ug/kg	1667.00	1058	64	
Indeno(1,2,3-cd)pyrene	ug/kg	1667.00	1184	71	
Isophorone	ug/kg	1667.00	1625	98	
2-Methylnaphthalene	ug/kg	1667.00	1186	71	
2-Methylphenol (o-Cresol)	ug/kg	1667.00	1194	72	
3&4-Methylphenol	ug/kg	1667.00	1210	73	
Naphthalene	ug/kg	1667.00	1071	64	
2-Nitroaniline	ug/kg	1667.00	1226	74	
3-Nitroaniline	ug/kg	1667.00	1211	73	
4-Nitroaniline	ug/kg	1667.00	1137	68	
Nitrobenzene	ug/kg	1667.00	1140	68	
2-Nitrophenol	ug/kg	1667.00	1162	70	
4-Nitrophenol	ug/kg	1667.00	1052	63	
N-Nitroso-di-n-propylamine	ug/kg	1667.00	1197	72	
N-Nitrosodiphenylamine	ug/kg	1667.00	1645	99	
Pentachlorophenol	ug/kg	1667.00	1372	82	
Phenanthrene	ug/kg	1667.00	1339	80	
Phenol	ug/kg	1667.00	1213	73	

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FL NELAP E87627

QUALITY CONTROL DATA

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

LABORATORY CONTROL SAMPLE: 924882822

<u>Parameter</u>	<u>Units</u>	<u>Spike</u>	<u>LCS</u>	<u>LCS</u>	<u>Footnotes</u>
		<u>Conc.</u>	<u>Result</u>	<u>% Rec</u>	
Pyrene	ug/kg	1667.00	1164	70	
1,2,4-Trichlorobenzene	ug/kg	1667.00	1097	66	
2,4,5-Trichlorophenol	ug/kg	1667.00	1355	81	
2,4,6-Trichlorophenol	ug/kg	1667.00	1307	78	
Nitrobenzene-d5 (S)				76	
2-Fluorobiphenyl (S)				83	
Terphenyl-d14 (S)				82	
Phenol-d5 (S)				76	
2-Fluorophenol (S)				74	
2,4,6-Tribromophenol (S)				98	

Date: 10/27/04

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

QUALITY CONTROL DATA

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

QC Batch: 112856
QC Batch Method: EPA 8260
Associated Lab Samples: 924878572

Analysis Method: EPA 8260
Analysis Description: GC/MS VOCs 5035/8260 low level

METHOD BLANK: 924883044
Associated Lab Samples: 924878572

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Acetone	ug/kg	ND	100	
Benzene	ug/kg	ND	5.0	
Bromobenzene	ug/kg	ND	5.0	
Bromochloromethane	ug/kg	ND	5.0	
Bromodichloromethane	ug/kg	ND	5.0	
Bromoform	ug/kg	ND	5.0	
Bromomethane	ug/kg	ND	10.	
2-Butanone (MEK)	ug/kg	ND	100	
n-Butylbenzene	ug/kg	ND	5.0	
ec-Butylbenzene	ug/kg	ND	5.0	
ert-Butylbenzene	ug/kg	ND	5.0	
Carbon tetrachloride	ug/kg	ND	5.0	
Chlorobenzene	ug/kg	ND	5.0	
Chloroethane	ug/kg	ND	10.	
Chloroform	ug/kg	ND	5.0	
Chloromethane	ug/kg	ND	10.	
2-Chlorotoluene	ug/kg	ND	5.0	
4-Chlorotoluene	ug/kg	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/kg	ND	5.0	
Dibromochloromethane	ug/kg	ND	5.0	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	
Dibromomethane	ug/kg	ND	5.0	
1,2-Dichlorobenzene	ug/kg	ND	5.0	
1,3-Dichlorobenzene	ug/kg	ND	5.0	
1,4-Dichlorobenzene	ug/kg	ND	5.0	
Dichlorodifluoromethane	ug/kg	ND	10.	
1,1-Dichloroethane	ug/kg	ND	5.0	
1,2-Dichloroethane	ug/kg	ND	5.0	
1,1-Dichloroethene	ug/kg	ND	5.0	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	

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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99930
FL NELAP E8/G48

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

QUALITY CONTROL DATA

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

METHOD BLANK: 924883044
Associated Lab Samples: 924878572

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
1,2-Dichloropropane	ug/kg	ND	5.0	
1,3-Dichloropropane	ug/kg	ND	5.0	
2,2-Dichloropropane	ug/kg	ND	5.0	
1,1-Dichloropropene	ug/kg	ND	5.0	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	
Diisopropyl ether	ug/kg	ND	5.0	
Ethylbenzene	ug/kg	ND	5.0	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	
2-Hexanone	ug/kg	ND	50.	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	
p-Isopropyltoluene	ug/kg	ND	5.0	
Methylene chloride	ug/kg	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	50.	
1-ethyl-tert-butyl ether	ug/kg	ND	5.0	
1-naphthalene	ug/kg	ND	5.0	
n-Propylbenzene	ug/kg	ND	5.0	
Styrene	ug/kg	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	
Tetrachloroethene	ug/kg	ND	5.0	
Toluene	ug/kg	ND	5.0	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	
1,1,1-Trichloroethane	ug/kg	ND	5.0	
1,1,2-Trichloroethane	ug/kg	ND	5.0	
Trichloroethene	ug/kg	ND	5.0	
Trichlorofluoromethane	ug/kg	ND	5.0	
1,2,3-Trichloropropane	ug/kg	ND	5.0	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	
Vinyl acetate	ug/kg	ND	50.	
Vinyl chloride	ug/kg	ND	10.	
Xylene (Total)	ug/kg	ND	5.0	
m&p-Xylene	ug/kg	ND	10.	
o-Xylene	ug/kg	ND	5.0	

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Ashville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

QUALITY CONTROL DATA

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

METHOD BLANK: 924883044
Associated Lab Samples: 924878572

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	97		
Dibromofluoromethane (S)	%	103		
1,2-Dichloroethane-d4 (S)	%	104		

LABORATORY CONTROL SAMPLE: 924883051

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Acetone	ug/kg	100.00	83.10	83	
Benzene	ug/kg	50.00	44.15	88	
Bromobenzene	ug/kg	50.00	43.42	87	
Bromochloromethane	ug/kg	50.00	43.92	88	
romodichloromethane	ug/kg	50.00	44.06	88	
romoform	ug/kg	50.00	48.85	98	
Bromomethane	ug/kg	50.00	50.22	100	
2-Butanone (MEK)	ug/kg	100.00	83.45	83	
n-Butylbenzene	ug/kg	50.00	38.40	77	
sec-Butylbenzene	ug/kg	50.00	43.01	86	
tert-Butylbenzene	ug/kg	50.00	43.75	88	
Carbon tetrachloride	ug/kg	50.00	44.20	88	
Chlorobenzene	ug/kg	50.00	43.11	86	
Chloroethane	ug/kg	50.00	54.36	109	
Chloroform	ug/kg	50.00	44.38	89	
Chloromethane	ug/kg	50.00	44.96	90	
2-Chlorotoluene	ug/kg	50.00	43.67	87	
4-Chlorotoluene	ug/kg	50.00	43.29	87	
1,2-Dibromo-3-chloropropane	ug/kg	50.00	48.45	97	
Dibromochloromethane	ug/kg	50.00	44.86	90	
1,2-Dibromoethane (EDB)	ug/kg	50.00	44.76	90	
Dibromomethane	ug/kg	50.00	44.14	88	
1,2-Dichlorobenzene	ug/kg	50.00	43.70	87	
1,3-Dichlorobenzene	ug/kg	50.00	42.66	85	
1,4-Dichlorobenzene	ug/kg	50.00	42.77	86	
Dichlorodifluoromethane	ug/kg	50.00	33.62	67	

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Asheville Certification IDs
NC Wastewater 40
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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
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FL NELAP E87627

QUALITY CONTROL DATA

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

LABORATORY CONTROL SAMPLE: 924883051

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
1,1-Dichloroethane	ug/kg	50.00	45.35	91	
1,2-Dichloroethane	ug/kg	50.00	44.13	88	
1,1-Dichloroethene	ug/kg	50.00	43.72	87	
cis-1,2-Dichloroethene	ug/kg	50.00	42.27	84	
trans-1,2-Dichloroethene	ug/kg	50.00	42.19	84	
1,2-Dichloropropane	ug/kg	50.00	43.97	88	
1,3-Dichloropropane	ug/kg	50.00	43.56	87	
2,2-Dichloropropane	ug/kg	50.00	43.22	86	
1,1-Dichloropropene	ug/kg	50.00	42.14	84	
cis-1,3-Dichloropropene	ug/kg	50.00	42.28	85	
trans-1,3-Dichloropropene	ug/kg	50.00	43.48	87	
Diisopropyl ether	ug/kg	50.00	43.93	88	
Ethylbenzene	ug/kg	50.00	43.16	86	
Hexachloro-1,3-butadiene	ug/kg	50.00	43.08	86	
2-Hexanone	ug/kg	100.00	90.94	91	
sopropylbenzene (Cumene)	ug/kg	50.00	45.52	91	
-Isopropyltoluene	ug/kg	50.00	38.80	78	
Methylene chloride	ug/kg	50.00	47.51	95	
4-Methyl-2-pentanone (MIBK)	ug/kg	100.00	84.40	84	
Methyl-tert-butyl ether	ug/kg	50.00	43.51	87	
Naphthalene	ug/kg	50.00	41.91	84	
n-Propylbenzene	ug/kg	50.00	43.05	86	
Styrene	ug/kg	50.00	42.77	86	
1,1,1,2-Tetrachloroethane	ug/kg	50.00	45.29	91	
1,1,2,2-Tetrachloroethane	ug/kg	50.00	44.33	89	
Tetrachloroethene	ug/kg	50.00	44.03	88	
Toluene	ug/kg	50.00	49.43	99	
1,2,3-Trichlorobenzene	ug/kg	50.00	43.21	86	
1,2,4-Trichlorobenzene	ug/kg	50.00	42.13	84	
1,1,1-Trichloroethane	ug/kg	50.00	43.55	87	
1,1,2-Trichloroethane	ug/kg	50.00	45.18	90	
Trichloroethene	ug/kg	50.00	45.83	92	
Trichlorofluoromethane	ug/kg	50.00	50.04	100	
1,2,3-Trichloropropane	ug/kg	50.00	43.38	87	
1,2,4-Trimethylbenzene	ug/kg	50.00	38.63	77	
1,3,5-Trimethylbenzene	ug/kg	50.00	38.17	76	
Vinyl acetate	ug/kg	100.00	72.20	72	

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QUALITY CONTROL DATA

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

LABORATORY CONTROL SAMPLE: 924883051

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Vinyl chloride	ug/kg	50.00	46.02	92	
Xylene (Total)	ug/kg	150.00	128.3	86	
m&p-Xylene	ug/kg	100.00	85.88	86	
o-Xylene	ug/kg	50.00	42.40	85	
Toluene-d8 (S)				101	
4-Bromofluorobenzene (S)				99	
Dibromofluoromethane (S)				102	
1,2-Dichloroethane-d4 (S)				103	

MATRIX SPIKE: 924885817

Parameter	Units	924865124	Spike	MS	MS	Footnotes
		Result	Conc.	Result	% Rec	
Benzene	ug/kg	34.27	47.11	76.90	90	
chlorobenzene	ug/kg	0	47.11	42.77	91	
,1-Dichloroethene	ug/kg	0	47.11	39.53	84	
Toluene	ug/kg	0	47.11	41.59	88	
Trichloroethene	ug/kg	0	47.11	43.40	92	
Toluene-d8 (S)					99	
4-Bromofluorobenzene (S)					97	
Dibromofluoromethane (S)					99	
1,2-Dichloroethane-d4 (S)					97	

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Asheville Certification IDs
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FL NELAP E87627

QUALITY CONTROL DATA

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

QC Batch: 112905 Analysis Method: % Moisture
QC Batch Method: Analysis Description: Percent Moisture
Associated Lab Samples: 924878572

SAMPLE DUPLICATE: 924884364

Parameter	Units	924875727	DUP	RPD	Footnotes
		Result	Result		
Percent Moisture	%	0.4000	0.4000	5	

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NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 9279786
Client Project ID: Laurel By 04-515-50

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
(S) Surrogate

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Asheville Certification IDs
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REPORT OF LABORATORY ANALYSIS

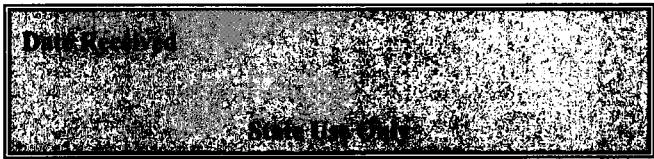
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Attachment 1

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



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	
137 Laurel Bay Blvd., 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).....
- B. Capacity...(ex. 1k, 2k).....
- C. Age.....
- D. Construction Material...(ex. Steel, FRP).....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Date Tanks Removed/Filled.....
- K. Visible Corrosion or Pitting Y/N.....
- L. Visible Holes Y/N.....

137 LaurelBay				
Heating oil				
280 gal				
Late 1950s				
Steel				
Mid 1980s				
4'11"				
No				
No				
Removed				
1/9/2013				
Yes				
Yes				

- M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 137LaurelBay was removed from the ground and disposed at a
Subtitle "D" landfill. See Attachment "A".
- N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)
UST 137LaurelBay had been previously filled with sand by others.
- O. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST
Corrosion, pitting and holes were found throughout the tank.

VII. PIPING INFORMATION

A. Construction Material..(ex. Steel, FRP).....	137			
B. Distance from UST to Dispenser.....	LaurelBay			
C. Number of Dispensers.....	Steel & Copper			
D. Type of System Pressure or Suction.....	N/A			
E. Was Piping Removed from the Ground? Y/N	N/A			
F. Visible Corrosion or Pitting Y/N.....	Suction			
G. Visible Holes Y/N.....	No			
H. Age.....	Yes			
I. If any corrosion, pitting, or holes were observed, describe the location and extent for each piping run.	No			
	Late 1950s			

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

VIII. BRIEF SITE DESCRIPTION AND HISTORY

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

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 #
137 LaurelBa	Excav at fill end	Soil	Sandy	4'11"	1/9/13 1200 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? *X *Stormwater drainage canal & river If yes, indicate type of receptor, distance, and direction on site map.	*X	
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		X
C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map.		X
D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *X *Sewer, water, electricity cable & fiber optic If yes, indicate the type of utility, distance, and direction on the site map.	*X	
E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.		X

XIII. SITE MAP

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

(Attach Site Map Here)



137 LAUREL BAY

0 100 200 400 600 800 1,000
 Feet

SBG-EEG, Inc.

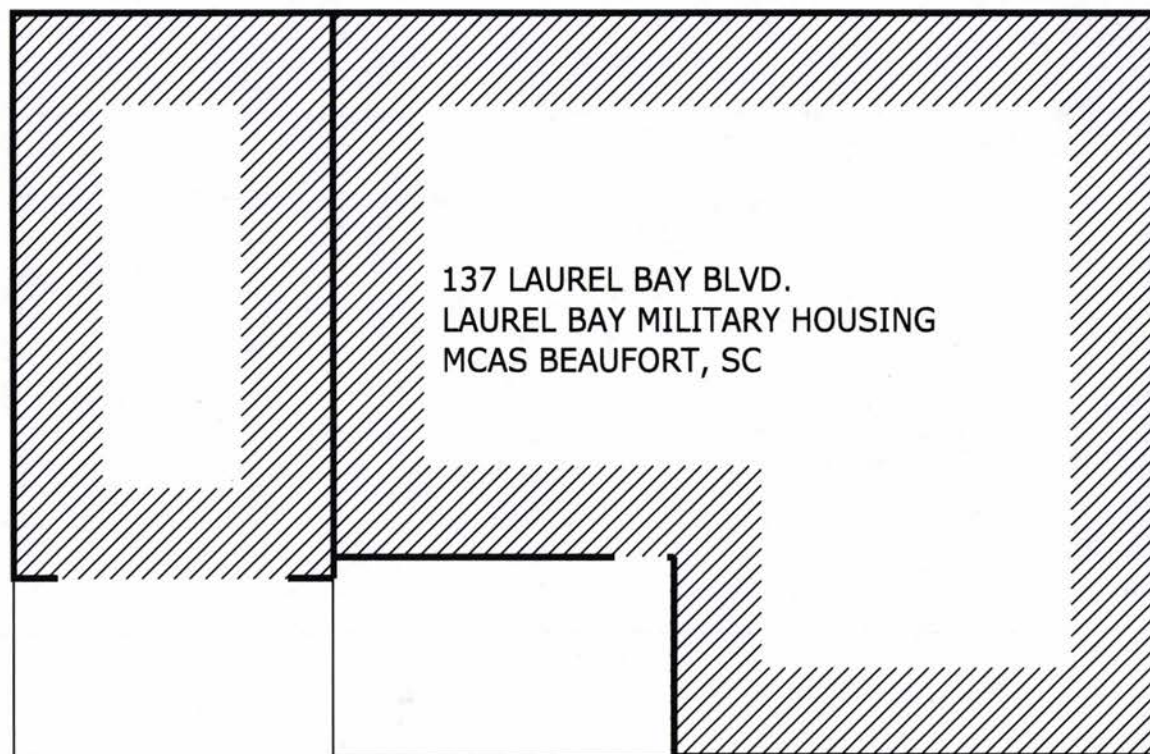
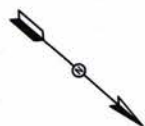
7301 Rivers Ave., Suite 245
 N. Charleston SC 29406-9643

Ph. (843) 573-7140

Drawn By: L. DiAsio

Dwg Date: Jan 2013

FIGURE 1: LOCATION MAP
137 LAUREL BAY BOULEVARD
LAUREL BAY, BEAUFORT SC



UST 137LAURELBAY



BROAD RIVER $\approx$ 990'



STORMWATER DRAINAGE
CANAL $\approx$ 70'

GRAPHIC SCALE

0 5' 10' 20'

TANK DEPTH BELOW GRADE
137LAURELBAY = 23"

SBG-EEG

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

FIGURE 2 SITE MAP
137 LAUREL BAY BLVD., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE JAN 2013

137 LAUREL BAY BLVD.
LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SC

ASPHALT
DRIVEWAY

PORCH

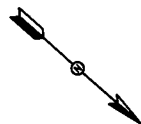
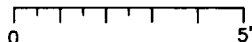
EXCAVATION

UST 137LAURELBAY
280 GAL.

FILL END

SOIL SAMPLE
137 LAUREL BAY

GRAPHIC SCALE



SBG-EEG

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

FIGURE 3 UST SAMPLE LOCATIONS
137 LAUREL BAY BLVD., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC

DWG DATE JAN 2013



Picture 1: Location of UST 137LaurelBay.



Picture 2: UST 137LaurelBay 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	137LaurelBay						
Benzene		ND						
Toluene		ND						
Ethylbenzene		0.00444 mg/kg						
Xylenes		0.00537 mg/kg						
Naphthalene		0.153 mg/kg						
Benzo (a) anthracene		ND						
Benzo (b) fluoranthene		ND						
Benzo (k) fluoranthene		ND						
Chrysene		ND						
Dibenz (a, h) anthracene		ND						
TPH (EPA 3550)								

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

SUMMARY OF ANALYSIS RESULTS (cont'd)

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

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

XV. ANALYTICAL RESULTS

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

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-17098-1

Client Project/Site: Laurel Bay Housing Project

Revision: 1

For:

Environmental Enterprise Group

10179 Highway 78

Ladson, South Carolina 29456

Attn: Mr. Tom McElwee

Madonna Myers

Authorized for release by:

2/4/2013 9:53:11 AM

Madonna Myers

Project Manager I

madonna.myers@testamericainc.com

Designee for

Ken Hayes

Project Manager I

ken.hayes@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?

? Ask
The
Expert

Visit us at:

www.testamericainc.com

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

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

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

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Sample Summary

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

TestAmerica Job ID: 490-17098-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-17098-1	557 Dahlia	Soil	01/08/13 14:30	01/15/13 09:15
490-17098-2	137 Laurel Bay	Soil	01/09/13 12:00	01/15/13 09:15
490-17098-3	625 Dahlia	Soil	01/10/13 11:30	01/15/13 09:15
490-17098-4	562 Dahlia	Soil	01/08/13 13:50	01/15/13 09:15
490-17098-6	619 Dahlia	Soil	01/10/13 11:35	01/15/13 09:15

Case Narrative

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

TestAmerica Job ID: 490-17098-1

Job ID: 490-17098-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-17098-1

Comments - REVISED REPORT

The following report(s) required a revision: 490-17098-1. Details are as follows: This report was revised to remove results from the following sample(s): 602 Dahlia (490-17098-5). The client requested the report revision to allow for re-sampling to correct Chain of Custody error in which all needed analyses were not requested. This report replaces all previously generated reports including the report generated on 1/22/2013 at 15:27.

Receipt

The samples were received on 1/15/2013 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was -0.4° C.

GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 51253.

No other analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

Organic Prep

Method(s) Moisture: The sample duplicate precision for the following sample associated with batch 51366 was outside control limits: (490-17098-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Definitions/Glossary

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

TestAmerica Job ID: 490-17098-1

Qualifiers

GC/MS Semi VOA

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

Glossary

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

Client Sample Results

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

TestAmerica Job ID: 490-17098-1

Client Sample ID: 557 Dahlia

Date Collected: 01/08/13 14:30

Date Received: 01/15/13 09:15

Lab Sample ID: 490-17098-1

Matrix: Soil

Percent Solids: 96.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00213	0.000712	mg/Kg	☒	01/16/13 17:14	01/16/13 17:44	1
Ethylbenzene	ND		0.00213	0.000712	mg/Kg	☒	01/16/13 17:14	01/16/13 17:44	1
Naphthalene	ND		0.00532	0.00181	mg/Kg	☒	01/16/13 17:14	01/16/13 17:44	1
Toluene	ND		0.00213	0.000787	mg/Kg	☒	01/16/13 17:14	01/16/13 17:44	1
Xylenes, Total	ND		0.00532	0.000712	mg/Kg	☒	01/16/13 17:14	01/16/13 17:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130	01/16/13 17:14	01/16/13 17:44	1
4-Bromofluorobenzene (Surr)	110		70 - 130	01/16/13 17:14	01/16/13 17:44	1
Dibromofluoromethane (Surr)	98		70 - 130	01/16/13 17:14	01/16/13 17:44	1
Toluene-d8 (Surr)	101		70 - 130	01/16/13 17:14	01/16/13 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0677	0.0101	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Acenaphthylene	ND		0.0677	0.00909	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Anthracene	ND		0.0677	0.00909	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Benzo[a]anthracene	ND		0.0677	0.0152	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Benzo[a]pyrene	0.0805		0.0677	0.0121	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Benzo[b]fluoranthene	ND		0.0677	0.0121	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Benzo[g,h,i]perylene	0.0457	J	0.0677	0.00909	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Benzo[k]fluoranthene	ND		0.0677	0.0141	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
1-Methylnaphthalene	ND		0.0677	0.0141	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Pyrene	ND		0.0677	0.0121	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Phenanthrene	ND		0.0677	0.00909	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Chrysene	0.0353	J	0.0677	0.00909	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Dibenz(a,h)anthracene	ND		0.0677	0.00707	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Fluoranthene	ND		0.0677	0.00909	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Fluorene	ND		0.0677	0.0121	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Indeno[1,2,3-cd]pyrene	0.0351	J	0.0677	0.0101	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
Naphthalene	ND		0.0677	0.00909	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1
2-Methylnaphthalene	ND		0.0677	0.0162	mg/Kg	☒	01/17/13 07:34	01/17/13 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	64		29 - 120	01/17/13 07:34	01/17/13 19:00	1
Terphenyl-d14 (Surr)	81		13 - 120	01/17/13 07:34	01/17/13 19:00	1
Nitrobenzene-d5 (Surr)	57		27 - 120	01/17/13 07:34	01/17/13 19:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	96		0.10	0.10	%			01/16/13 14:21	1

TestAmerica Nashville

Client Sample Results

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

TestAmerica Job ID: 490-17098-1

Client Sample ID: 137 Laurel Bay

Lab Sample ID: 490-17098-2

Date Collected: 01/09/13 12:00

Matrix: Soil

Date Received: 01/15/13 09:15

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00211	0.000707	mg/Kg	☒	01/16/13 17:14	01/16/13 18:11	1
Ethylbenzene	0.00444		0.00211	0.000707	mg/Kg	☒	01/16/13 17:14	01/16/13 18:11	1
Naphthalene	0.153		0.00528	0.00179	mg/Kg	☒	01/16/13 17:14	01/16/13 18:11	1
Toluene	ND		0.00211	0.000781	mg/Kg	☒	01/16/13 17:14	01/16/13 18:11	1
Xylenes, Total	0.00537		0.00528	0.000707	mg/Kg	☒	01/16/13 17:14	01/16/13 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130	01/16/13 17:14	01/16/13 18:11	1
4-Bromofluorobenzene (Surr)	121		70 - 130	01/16/13 17:14	01/16/13 18:11	1
Dibromofluoromethane (Surr)	102		70 - 130	01/16/13 17:14	01/16/13 18:11	1
Toluene-d8 (Surr)	102		70 - 130	01/16/13 17:14	01/16/13 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0782	0.0117	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Acenaphthylene	ND		0.0782	0.0105	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Anthracene	0.167		0.0782	0.0105	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Benzo[a]anthracene	ND		0.0782	0.0175	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Benzo[a]pyrene	ND		0.0782	0.0140	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Benzo[b]fluoranthene	ND		0.0782	0.0140	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Benzo[g,h,i]perylene	ND		0.0782	0.0105	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Benzo[k]fluoranthene	ND		0.0782	0.0163	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
1-Methylnaphthalene	5.38		0.156	0.0327	mg/Kg	☒	01/17/13 07:34	01/18/13 10:44	2
Pyrene	0.141		0.0782	0.0140	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Phenanthrene	1.78		0.0782	0.0105	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Chrysene	ND		0.0782	0.0105	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Dibenz(a,h)anthracene	ND		0.0782	0.00817	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Fluoranthene	ND		0.0782	0.0105	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Fluorene	ND		0.0782	0.0140	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Indeno[1,2,3-cd]pyrene	ND		0.0782	0.0117	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
Naphthalene	0.777		0.0782	0.0105	mg/Kg	☒	01/17/13 07:34	01/17/13 20:04	1
2-Methylnaphthalene	7.66		0.156	0.0374	mg/Kg	☒	01/17/13 07:34	01/18/13 10:44	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	56		29 - 120	01/17/13 07:34	01/17/13 20:04	1
Terphenyl-d14 (Surr)	79		13 - 120	01/17/13 07:34	01/17/13 20:04	1
Nitrobenzene-d5 (Surr)	54		27 - 120	01/17/13 07:34	01/17/13 20:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84		0.10	0.10	%			01/16/13 14:21	1

TestAmerica Nashville

Client Sample Results

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

TestAmerica Job ID: 490-17098-1

Client Sample ID: 625 Dahlia

Lab Sample ID: 490-17098-3

Date Collected: 01/10/13 11:30

Matrix: Soil

Date Received: 01/15/13 09:15

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00249	0.000833	mg/Kg	☒	01/16/13 17:14	01/16/13 18:38	1
Ethylbenzene	ND		0.00249	0.000833	mg/Kg	☒	01/16/13 17:14	01/16/13 18:38	1
Naphthalene	ND		0.00621	0.00211	mg/Kg	☒	01/16/13 17:14	01/16/13 18:38	1
Toluene	ND		0.00249	0.000920	mg/Kg	☒	01/16/13 17:14	01/16/13 18:38	1
Xylenes, Total	ND		0.00621	0.000833	mg/Kg	☒	01/16/13 17:14	01/16/13 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130	01/16/13 17:14	01/16/13 18:38	1
4-Bromofluorobenzene (Surr)	104		70 - 130	01/16/13 17:14	01/16/13 18:38	1
Dibromofluoromethane (Surr)	99		70 - 130	01/16/13 17:14	01/16/13 18:38	1
Toluene-d8 (Surr)	98		70 - 130	01/16/13 17:14	01/16/13 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0756	0.0113	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Acenaphthylene	ND		0.0756	0.0102	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Anthracene	ND		0.0756	0.0102	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Benzo[a]anthracene	ND		0.0756	0.0169	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Benzo[a]pyrene	ND		0.0756	0.0135	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Benzo[b]fluoranthene	ND		0.0756	0.0135	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Benzo[g,h,i]perylene	ND		0.0756	0.0102	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Benzo[k]fluoranthene	ND		0.0756	0.0158	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
1-Methylnaphthalene	ND		0.0756	0.0158	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Pyrene	ND		0.0756	0.0135	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Phenanthrene	ND		0.0756	0.0102	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Chrysene	ND		0.0756	0.0102	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Dibenz(a,h)anthracene	ND		0.0756	0.00790	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Fluoranthene	ND		0.0756	0.0102	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Fluorene	ND		0.0756	0.0135	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Indeno[1,2,3-cd]pyrene	ND		0.0756	0.0113	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
Naphthalene	ND		0.0756	0.0102	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1
2-Methylnaphthalene	ND		0.0756	0.0181	mg/Kg	☒	01/17/13 07:34	01/17/13 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		29 - 120	01/17/13 07:34	01/17/13 20:25	1
Terphenyl-d14 (Surr)	79		13 - 120	01/17/13 07:34	01/17/13 20:25	1
Nitrobenzene-d5 (Surr)	61		27 - 120	01/17/13 07:34	01/17/13 20:25	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87		0.10	0.10	%			01/16/13 14:21	1

TestAmerica Nashville

Client Sample Results

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

TestAmerica Job ID: 490-17098-1

Client Sample ID: 562 Dahlia

Lab Sample ID: 490-17098-4

Date Collected: 01/08/13 13:50

Matrix: Soil

Date Received: 01/15/13 09:15

Percent Solids: 95.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00243	0.000814	mg/Kg	☒	01/16/13 17:14	01/16/13 19:05	1
Ethylbenzene	ND		0.00243	0.000814	mg/Kg	☒	01/16/13 17:14	01/16/13 19:05	1
Naphthalene	ND		0.00608	0.00207	mg/Kg	☒	01/16/13 17:14	01/16/13 19:05	1
Toluene	ND		0.00243	0.000899	mg/Kg	☒	01/16/13 17:14	01/16/13 19:05	1
Xylenes, Total	ND		0.00608	0.000814	mg/Kg	☒	01/16/13 17:14	01/16/13 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130	01/16/13 17:14	01/16/13 19:05	1
4-Bromofluorobenzene (Surr)	104		70 - 130	01/16/13 17:14	01/16/13 19:05	1
Dibromofluoromethane (Surr)	98		70 - 130	01/16/13 17:14	01/16/13 19:05	1
Toluene-d8 (Surr)	104		70 - 130	01/16/13 17:14	01/16/13 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0686	0.0102	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Acenaphthylene	ND		0.0686	0.00922	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Anthracene	ND		0.0686	0.00922	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Benzo[a]anthracene	ND		0.0686	0.0154	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Benzo[a]pyrene	ND		0.0686	0.0123	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Benzo[b]fluoranthene	ND		0.0686	0.0123	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Benzo[g,h,i]perylene	ND		0.0686	0.00922	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Benzo[k]fluoranthene	ND		0.0686	0.0143	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
1-Methylnaphthalene	ND		0.0686	0.0143	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Pyrene	ND		0.0686	0.0123	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Phenanthrene	ND		0.0686	0.00922	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Chrysene	ND		0.0686	0.00922	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Dibenz[a,h]anthracene	ND		0.0686	0.00717	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Fluoranthene	ND		0.0686	0.00922	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Fluorene	ND		0.0686	0.0123	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Indeno[1,2,3-cd]pyrene	ND		0.0686	0.0102	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
Naphthalene	ND		0.0686	0.00922	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1
2-Methylnaphthalene	ND		0.0686	0.0164	mg/Kg	☒	01/17/13 07:34	01/17/13 20:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		29 - 120	01/17/13 07:34	01/17/13 20:46	1
Terphenyl-d14 (Surr)	71		13 - 120	01/17/13 07:34	01/17/13 20:46	1
Nitrobenzene-d5 (Surr)	53		27 - 120	01/17/13 07:34	01/17/13 20:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10	0.10	%			01/16/13 14:21	1

TestAmerica Nashville

Client Sample Results

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

TestAmerica Job ID: 490-17098-1

Client Sample ID: 619 Dahlia

Date Collected: 01/10/13 11:35

Date Received: 01/15/13 09:15

Lab Sample ID: 490-17098-6

Matrix: Soil

Percent Solids: 88.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00260	0.000871	mg/Kg	☒	01/16/13 17:14	01/16/13 19:59	1
Ethylbenzene	ND		0.00260	0.000871	mg/Kg	☒	01/16/13 17:14	01/16/13 19:59	1
Naphthalene	ND		0.00650	0.00221	mg/Kg	☒	01/16/13 17:14	01/16/13 19:59	1
Toluene	ND		0.00260	0.000962	mg/Kg	☒	01/16/13 17:14	01/16/13 19:59	1
Xylenes, Total	ND		0.00650	0.000871	mg/Kg	☒	01/16/13 17:14	01/16/13 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130	01/16/13 17:14	01/16/13 19:59	1
4-Bromofluorobenzene (Surr)	103		70 - 130	01/16/13 17:14	01/16/13 19:59	1
Dibromofluoromethane (Surr)	98		70 - 130	01/16/13 17:14	01/16/13 19:59	1
Toluene-d8 (Surr)	101		70 - 130	01/16/13 17:14	01/16/13 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0740	0.0111	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Acenaphthylene	ND		0.0740	0.00995	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Anthracene	ND		0.0740	0.00995	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Benzo[a]anthracene	ND		0.0740	0.0166	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Benzo[a]pyrene	ND		0.0740	0.0133	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Benzo[b]fluoranthene	ND		0.0740	0.0133	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Benzo[g,h,i]perylene	ND		0.0740	0.00995	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Benzo[k]fluoranthene	ND		0.0740	0.0155	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
1-Methylnaphthalene	ND		0.0740	0.0155	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Pyrene	ND		0.0740	0.0133	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Phenanthrene	ND		0.0740	0.00995	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Chrysene	ND		0.0740	0.00995	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Dibenz(a,h)anthracene	ND		0.0740	0.00774	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Fluoranthene	ND		0.0740	0.00995	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Fluorene	ND		0.0740	0.0133	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Indeno[1,2,3-cd]pyrene	ND		0.0740	0.0111	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
Naphthalene	ND		0.0740	0.00995	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1
2-Methylnaphthalene	ND		0.0740	0.0177	mg/Kg	☒	01/17/13 07:34	01/17/13 21:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	53		29 - 120	01/17/13 07:34	01/17/13 21:07	1
Terphenyl-d14 (Surr)	66		13 - 120	01/17/13 07:34	01/17/13 21:07	1
Nitrobenzene-d5 (Surr)	49		27 - 120	01/17/13 07:34	01/17/13 21:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10	0.10	%			01/16/13 14:21	1

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-17098-1

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

Lab Sample ID: MB 490-51253/7

Matrix: Solid

Analysis Batch: 51253

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND				0.00200	0.000670	mg/Kg			01/16/13 13:25	1
Ethylbenzene	ND				0.00200	0.000670	mg/Kg			01/16/13 13:25	1
Naphthalene	ND				0.00500	0.00170	mg/Kg			01/16/13 13:25	1
Toluene	ND				0.00200	0.000740	mg/Kg			01/16/13 13:25	1
Xylenes, Total	ND				0.00500	0.000670	mg/Kg			01/16/13 13:25	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110				70 - 130		01/16/13 13:25	1
4-Bromofluorobenzene (Surr)	103				70 - 130		01/16/13 13:25	1
Dibromofluoromethane (Surr)	98				70 - 130		01/16/13 13:25	1
Toluene-d8 (Surr)	104				70 - 130		01/16/13 13:25	1

Lab Sample ID: LCS 490-51253/3

Matrix: Solid

Analysis Batch: 51253

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits
Benzene	Added	0.0500	0.05058			mg/Kg		101	75 - 127	
Ethylbenzene	0.0500	0.05380				mg/Kg		108	80 - 134	
Naphthalene	0.0500	0.05447				mg/Kg		109	69 - 150	
Toluene	0.0500	0.05290				mg/Kg		106	80 - 132	
Xylenes, Total	0.150	0.1634				mg/Kg		109	80 - 137	

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113				70 - 130
4-Bromofluorobenzene (Surr)	104				70 - 130
Dibromofluoromethane (Surr)	102				70 - 130
Toluene-d8 (Surr)	103				70 - 130

Lab Sample ID: LCSD 490-51253/4

Matrix: Solid

Analysis Batch: 51253

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	RPD	RPD	Limit
Benzene	Added	0.0500	0.04985			mg/Kg		100	75 - 127		1	50	
Ethylbenzene	0.0500	0.05296				mg/Kg		106	80 - 134		2	50	
Naphthalene	0.0500	0.05222				mg/Kg		104	69 - 150		4	50	
Toluene	0.0500	0.05255				mg/Kg		105	80 - 132		1	50	
Xylenes, Total	0.150	0.1613				mg/Kg		108	80 - 137		1	50	

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108				70 - 130
4-Bromofluorobenzene (Surr)	102				70 - 130
Dibromofluoromethane (Surr)	97				70 - 130
Toluene-d8 (Surr)	103				70 - 130

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-17098-1

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

Lab Sample ID: MB 490-51496/1-A

Matrix: Solid

Analysis Batch: 51797

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51496

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0670	0.0100	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Acenaphthene	ND		0.0670	0.0100	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Acenaphthylene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Anthracene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Anthracene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Benzo[a]anthracene	ND		0.0670	0.0150	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Benzo[a]pyrene	ND		0.0670	0.0120	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Benzo[b]fluoranthene	ND		0.0670	0.0120	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Benzo[g,h,i]perylene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Benzo[k]fluoranthene	ND		0.0670	0.0140	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
1-Methylnaphthalene	ND		0.0670	0.0140	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Pyrene	ND		0.0670	0.0120	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Pyrene	ND		0.0670	0.0120	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Phenanthrene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Chrysene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Chrysene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Dibenz(a,h)anthracene	ND		0.0670	0.00700	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Fluoranthene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Fluorene	ND		0.0670	0.0120	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Fluorene	ND		0.0670	0.0120	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0670	0.0100	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
Naphthalene	ND		0.0670	0.00900	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		01/17/13 07:34	01/17/13 17:14	1
2-Methylnaphthalene	ND		0.0670	0.0160	mg/Kg		01/17/13 07:34	01/17/13 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	42		29 - 120	01/17/13 07:34	01/17/13 17:14	1
2-Fluorobiphenyl (Surr)	42		29 - 120	01/17/13 07:34	01/17/13 17:14	1
Terphenyl-d14 (Surr)	59		13 - 120	01/17/13 07:34	01/17/13 17:14	1
Terphenyl-d14 (Surr)	59		13 - 120	01/17/13 07:34	01/17/13 17:14	1
Nitrobenzene-d5 (Surr)	37		27 - 120	01/17/13 07:34	01/17/13 17:14	1
Nitrobenzene-d5 (Surr)	37		27 - 120	01/17/13 07:34	01/17/13 17:14	1

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-17098-1

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

Lab Sample ID: LCS 490-51496/2-A

Matrix: Solid

Analysis Batch: 51797

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51496

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier					
Acenaphthylene	1.67	1.134		mg/Kg		68		38 - 120
Acenaphthylene	1.67	1.134		mg/Kg		68		38 - 120
Anthracene	1.67	1.157		mg/Kg		69		46 - 124
Anthracene	1.67	1.157		mg/Kg		69		46 - 124
Benzo[a]anthracene	1.67	1.183		mg/Kg		71		45 - 120
Benzo[a]anthracene	1.67	1.183		mg/Kg		71		45 - 120
Benzo[a]pyrene	1.67	1.110		mg/Kg		67		45 - 120
Benzo[a]pyrene	1.67	1.110		mg/Kg		67		45 - 120
Benzo[b]fluoranthene	1.67	1.106		mg/Kg		66		42 - 120
Benzo[b]fluoranthene	1.67	1.106		mg/Kg		66		42 - 120
Benzo[g,h,i]perylene	1.67	1.136		mg/Kg		68		38 - 120
Benzo[g,h,i]perylene	1.67	1.136		mg/Kg		68		38 - 120
Benzo[k]fluoranthene	1.67	1.150		mg/Kg		69		42 - 120
Benzo[k]fluoranthene	1.67	1.150		mg/Kg		69		42 - 120
1-Methylnaphthalene	1.67	1.201		mg/Kg		72		32 - 120
1-Methylnaphthalene	1.67	1.201		mg/Kg		72		32 - 120
Pyrene	1.67	1.200		mg/Kg		72		43 - 120
Pyrene	1.67	1.200		mg/Kg		72		43 - 120
Phenanthrene	1.67	1.191		mg/Kg		71		45 - 120
Phenanthrene	1.67	1.191		mg/Kg		71		45 - 120
Chrysene	1.67	1.184		mg/Kg		71		43 - 120
Chrysene	1.67	1.184		mg/Kg		71		43 - 120
Dibenz(a,h)anthracene	1.67	1.157		mg/Kg		69		32 - 128
Dibenz(a,h)anthracene	1.67	1.157		mg/Kg		69		32 - 128
Fluoranthene	1.67	1.109		mg/Kg		67		46 - 120
Fluoranthene	1.67	1.109		mg/Kg		67		46 - 120
Fluorene	1.67	1.132		mg/Kg		68		42 - 120
Fluorene	1.67	1.132		mg/Kg		68		42 - 120
Indeno[1,2,3-cd]pyrene	1.67	1.141		mg/Kg		68		41 - 121
Indeno[1,2,3-cd]pyrene	1.67	1.141		mg/Kg		68		41 - 121
Naphthalene	1.67	1.146		mg/Kg		69		32 - 120
Naphthalene	1.67	1.146		mg/Kg		69		32 - 120
2-Methylnaphthalene	1.67	1.199		mg/Kg		72		28 - 120
2-Methylnaphthalene	1.67	1.199		mg/Kg		72		28 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	56		29 - 120
2-Fluorobiphenyl (Surr)	56		29 - 120
Terphenyl-d14 (Surr)	70		13 - 120
Terphenyl-d14 (Surr)	70		13 - 120
Nitrobenzene-d5 (Surr)	52		27 - 120
Nitrobenzene-d5 (Surr)	52		27 - 120

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-17098-1

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

Lab Sample ID: 490-17098-1 MS

Matrix: Soil

Analysis Batch: 51797

Client Sample ID: 557 Dahlia

Prep Type: Total/NA

Prep Batch: 51496

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Acenaphthylene	ND		1.72	1.156		mg/Kg	☒	67	25 - 120	
Acenaphthylene	ND		1.72	1.156		mg/Kg	☒	67	25 - 120	
Anthracene	ND		1.72	1.133		mg/Kg	☒	66	28 - 125	
Anthracene	ND		1.72	1.133		mg/Kg	☒	66	28 - 125	
Benzo[a]anthracene	ND		1.72	1.165		mg/Kg	☒	68	23 - 120	
Benzo[a]anthracene	ND		1.72	1.165		mg/Kg	☒	68	23 - 120	
Benzo[a]pyrene	0.0805		1.72	1.046		mg/Kg	☒	56	15 - 128	
Benzo[a]pyrene	0.0805		1.72	1.046		mg/Kg	☒	56	15 - 128	
Benzo[b]fluoranthene	ND		1.72	1.089		mg/Kg	☒	63	12 - 133	
Benzo[b]fluoranthene	ND		1.72	1.089		mg/Kg	☒	63	12 - 133	
Benzo[g,h,i]perylene	0.0457		1.72	1.099		mg/Kg	☒	61	22 - 120	
Benzo[g,h,i]perylene	0.0457	J	1.72	1.099		mg/Kg	☒	61	22 - 120	
Benzo[k]fluoranthene	ND		1.72	1.198		mg/Kg	☒	70	28 - 120	
Benzo[k]fluoranthene	ND		1.72	1.198		mg/Kg	☒	70	28 - 120	
1-Methylnaphthalene	ND		1.72	1.206		mg/Kg	☒	70	10 - 120	
1-Methylnaphthalene	ND		1.72	1.206		mg/Kg	☒	70	10 - 120	
Pyrene	ND		1.72	1.170		mg/Kg	☒	68	20 - 123	
Pyrene	ND		1.72	1.170		mg/Kg	☒	68	20 - 123	
Phenanthrene	ND		1.72	1.174		mg/Kg	☒	68	21 - 122	
Phenanthrene	ND		1.72	1.174		mg/Kg	☒	68	21 - 122	
Chrysene	0.0353		1.72	1.127		mg/Kg	☒	63	20 - 120	
Chrysene	0.0353	J	1.72	1.127		mg/Kg	☒	63	20 - 120	
Dibenz(a,h)anthracene	ND		1.72	1.074		mg/Kg	☒	62	12 - 128	
Dibenz(a,h)anthracene	ND		1.72	1.074		mg/Kg	☒	62	12 - 128	
Fluoranthene	ND		1.72	1.119		mg/Kg	☒	65	10 - 143	
Fluoranthene	ND		1.72	1.119		mg/Kg	☒	65	10 - 143	
Fluorene	ND		1.72	1.139		mg/Kg	☒	66	20 - 120	
Fluorene	ND		1.72	1.139		mg/Kg	☒	66	20 - 120	
Indeno[1,2,3-cd]pyrene	0.0351		1.72	1.090		mg/Kg	☒	61	22 - 121	
Indeno[1,2,3-cd]pyrene	0.0351	J	1.72	1.090		mg/Kg	☒	61	22 - 121	
Naphthalene	ND		1.72	1.252		mg/Kg	☒	73	10 - 120	
Naphthalene	ND		1.72	1.252		mg/Kg	☒	73	10 - 120	
2-Methylnaphthalene	ND		1.72	1.214		mg/Kg	☒	71	13 - 120	
2-Methylnaphthalene	ND		1.72	1.214		mg/Kg	☒	71	13 - 120	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	56		29 - 120
2-Fluorobiphenyl (Surr)	56		29 - 120
Terphenyl-d14 (Surr)	71		13 - 120
Terphenyl-d14 (Surr)	71		13 - 120
Nitrobenzene-d5 (Surr)	55		27 - 120
Nitrobenzene-d5 (Surr)	55		27 - 120

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-17098-1

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

Lab Sample ID: 490-17098-1 MSD

Matrix: Soil

Analysis Batch: 51797

Client Sample ID: 557 Dahlia

Prep Type: Total/NA

Prep Batch: 51496

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits			
Acenaphthylene	ND		1.71	1.237		mg/Kg	☒	72	25 - 120		7	50
Acenaphthylene	ND		1.71	1.237		mg/Kg	☒	72	25 - 120		7	50
Anthracene	ND		1.71	1.228		mg/Kg	☒	72	28 - 125		8	49
Anthracene	ND		1.71	1.228		mg/Kg	☒	72	28 - 125		8	49
Benzo[a]anthracene	ND		1.71	1.234		mg/Kg	☒	72	23 - 120		6	50
Benzo[a]anthracene	ND		1.71	1.234		mg/Kg	☒	72	23 - 120		6	50
Benzo[a]pyrene	0.0805		1.71	1.138		mg/Kg	☒	62	15 - 128		8	50
Benzo[a]pyrene	0.0805		1.71	1.138		mg/Kg	☒	62	15 - 128		8	50
Benzo[b]fluoranthene	ND		1.71	1.275		mg/Kg	☒	75	12 - 133		16	50
Benzo[b]fluoranthene	ND		1.71	1.275		mg/Kg	☒	75	12 - 133		16	50
Benzo[g,h,i]perylene	0.0457		1.71	1.204		mg/Kg	☒	68	22 - 120		9	50
Benzo[g,h,i]perylene	0.0457	J	1.71	1.204		mg/Kg	☒	68	22 - 120		9	50
Benzo[k]fluoranthene	ND		1.71	1.131		mg/Kg	☒	66	28 - 120		6	45
Benzo[k]fluoranthene	ND		1.71	1.131		mg/Kg	☒	66	28 - 120		6	45
1-Methylnaphthalene	ND		1.71	1.259		mg/Kg	☒	74	10 - 120		4	50
1-Methylnaphthalene	ND		1.71	1.259		mg/Kg	☒	74	10 - 120		4	50
Pyrene	ND		1.71	1.219		mg/Kg	☒	71	20 - 123		4	50
Pyrene	ND		1.71	1.219		mg/Kg	☒	71	20 - 123		4	50
Phenanthrene	ND		1.71	1.281		mg/Kg	☒	75	21 - 122		9	50
Phenanthrene	ND		1.71	1.281		mg/Kg	☒	75	21 - 122		9	50
Chrysene	0.0353		1.71	1.224		mg/Kg	☒	70	20 - 120		8	49
Chrysene	0.0353	J	1.71	1.224		mg/Kg	☒	70	20 - 120		8	49
Dibenz(a,h)anthracene	ND		1.71	1.183		mg/Kg	☒	69	12 - 128		10	50
Dibenz(a,h)anthracene	ND		1.71	1.183		mg/Kg	☒	69	12 - 128		10	50
Fluoranthene	ND		1.71	1.189		mg/Kg	☒	70	10 - 143		6	50
Fluoranthene	ND		1.71	1.189		mg/Kg	☒	70	10 - 143		6	50
Fluorene	ND		1.71	1.229		mg/Kg	☒	72	20 - 120		8	50
Fluorene	ND		1.71	1.229		mg/Kg	☒	72	20 - 120		8	50
Indeno[1,2,3-cd]pyrene	0.0351		1.71	1.188		mg/Kg	☒	68	22 - 121		9	50
Indeno[1,2,3-cd]pyrene	0.0351	J	1.71	1.188		mg/Kg	☒	68	22 - 121		9	50
Naphthalene	ND		1.71	1.270		mg/Kg	☒	74	10 - 120		1	50
Naphthalene	ND		1.71	1.270		mg/Kg	☒	74	10 - 120		1	50
2-Methylnaphthalene	ND		1.71	1.273		mg/Kg	☒	74	13 - 120		5	50
2-Methylnaphthalene	ND		1.71	1.273		mg/Kg	☒	74	13 - 120		5	50

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	60		29 - 120
2-Fluorobiphenyl (Surr)	60		29 - 120
Terphenyl-d14 (Surr)	71		13 - 120
Terphenyl-d14 (Surr)	71		13 - 120
Nitrobenzene-d5 (Surr)	54		27 - 120
Nitrobenzene-d5 (Surr)	54		27 - 120

TestAmerica Nashville

QC Sample Results

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

TestAmerica Job ID: 490-17098-1

Method: Moisture - Percent Moisture

Lab Sample ID: 490-17098-1 DU

Matrix: Soil

Analysis Batch: 51366

Client Sample ID: 557 Dahlia

Prep Type: Total/NA

Analyte	Sample		DU		Unit	D	RPD	
	Result	Qualifier	Result	Qualifier			RPD	Limit
Percent Solids	96		95		%		2	20

QC Association Summary

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

TestAmerica Job ID: 490-17098-1

GC/MS VOA

Analysis Batch: 51253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17098-1	557 Dahlia	Total/NA	Soil	8260B	51444
490-17098-2	137 Laurel Bay	Total/NA	Soil	8260B	51444
490-17098-3	625 Dahlia	Total/NA	Soil	8260B	51444
490-17098-4	562 Dahlia	Total/NA	Soil	8260B	51444
490-17098-6	619 Dahlia	Total/NA	Soil	8260B	51444
LCS 490-51253/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-51253/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-51253/7	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 51444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17098-1	557 Dahlia	Total/NA	Soil	5035	
490-17098-2	137 Laurel Bay	Total/NA	Soil	5035	
490-17098-3	625 Dahlia	Total/NA	Soil	5035	
490-17098-4	562 Dahlia	Total/NA	Soil	5035	
490-17098-6	619 Dahlia	Total/NA	Soil	5035	

GC/MS Semi VOA

Prep Batch: 51496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17098-1	557 Dahlia	Total/NA	Soil	3550C	
490-17098-1 MS	557 Dahlia	Total/NA	Soil	3550C	
490-17098-1 MSD	557 Dahlia	Total/NA	Soil	3550C	
490-17098-2	137 Laurel Bay	Total/NA	Soil	3550C	
490-17098-3	625 Dahlia	Total/NA	Soil	3550C	
490-17098-4	562 Dahlia	Total/NA	Soil	3550C	
490-17098-6	619 Dahlia	Total/NA	Soil	3550C	
LCS 490-51496/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-51496/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 51797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17098-1 MS	557 Dahlia	Total/NA	Soil	8270D	51496
490-17098-1 MSD	557 Dahlia	Total/NA	Soil	8270D	51496
LCS 490-51496/2-A	Lab Control Sample	Total/NA	Solid	8270D	51496
MB 490-51496/1-A	Method Blank	Total/NA	Solid	8270D	51496

Analysis Batch: 51799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17098-1	557 Dahlia	Total/NA	Soil	8270D	51496
490-17098-1 MS	557 Dahlia	Total/NA	Soil	8270D	51496
490-17098-1 MSD	557 Dahlia	Total/NA	Soil	8270D	51496
490-17098-2	137 Laurel Bay	Total/NA	Soil	8270D	51496
490-17098-3	625 Dahlia	Total/NA	Soil	8270D	51496
490-17098-4	562 Dahlia	Total/NA	Soil	8270D	51496
490-17098-6	619 Dahlia	Total/NA	Soil	8270D	51496
LCS 490-51496/2-A	Lab Control Sample	Total/NA	Solid	8270D	51496
MB 490-51496/1-A	Method Blank	Total/NA	Solid	8270D	51496

TestAmerica Nashville

QC Association Summary

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

TestAmerica Job ID: 490-17098-1

GC/MS Semi VOA (Continued)

Analysis Batch: 51915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17098-2	137 Laurel Bay	Total/NA	Soil	8270D	51496

General Chemistry

Analysis Batch: 51366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-17098-1	557 Dahlia	Total/NA	Soil	Moisture	
490-17098-1 DU	557 Dahlia	Total/NA	Soil	Moisture	
490-17098-2	137 Laurel Bay	Total/NA	Soil	Moisture	
490-17098-3	625 Dahlia	Total/NA	Soil	Moisture	
490-17098-4	562 Dahlia	Total/NA	Soil	Moisture	
490-17098-6	619 Dahlia	Total/NA	Soil	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 490-17098-1

Client Sample ID: 557 Dahlia

Date Collected: 01/08/13 14:30

Date Received: 01/15/13 09:15

Lab Sample ID: 490-17098-1

Matrix: Soil

Percent Solids: 96.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			51444	01/16/13 17:14	ML	TAL NSH
Total/NA	Analysis	8260B		1	51253	01/16/13 17:44	MH	TAL NSH
Total/NA	Prep	3550C			51496	01/17/13 07:34	AK	TAL NSH
Total/NA	Analysis	8270D		1	51799	01/17/13 19:00	BS	TAL NSH
Total/NA	Analysis	Moisture		1	51366	01/16/13 14:21	RS	TAL NSH

Client Sample ID: 137 Laurel Bay

Date Collected: 01/09/13 12:00

Date Received: 01/15/13 09:15

Lab Sample ID: 490-17098-2

Matrix: Soil

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			51444	01/16/13 17:14	ML	TAL NSH
Total/NA	Analysis	8260B		1	51253	01/16/13 18:11	MH	TAL NSH
Total/NA	Prep	3550C			51496	01/17/13 07:34	AK	TAL NSH
Total/NA	Analysis	8270D		1	51799	01/17/13 20:04	BS	TAL NSH
Total/NA	Analysis	8270D		2	51915	01/18/13 10:44	JS	TAL NSH
Total/NA	Analysis	Moisture		1	51366	01/16/13 14:21	RS	TAL NSH

Client Sample ID: 625 Dahlia

Date Collected: 01/10/13 11:30

Date Received: 01/15/13 09:15

Lab Sample ID: 490-17098-3

Matrix: Soil

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			51444	01/16/13 17:14	ML	TAL NSH
Total/NA	Analysis	8260B		1	51253	01/16/13 18:38	MH	TAL NSH
Total/NA	Prep	3550C			51496	01/17/13 07:34	AK	TAL NSH
Total/NA	Analysis	8270D		1	51799	01/17/13 20:25	BS	TAL NSH
Total/NA	Analysis	Moisture		1	51366	01/16/13 14:21	RS	TAL NSH

Client Sample ID: 562 Dahlia

Date Collected: 01/08/13 13:50

Date Received: 01/15/13 09:15

Lab Sample ID: 490-17098-4

Matrix: Soil

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			51444	01/16/13 17:14	ML	TAL NSH
Total/NA	Analysis	8260B		1	51253	01/16/13 19:05	MH	TAL NSH
Total/NA	Prep	3550C			51496	01/17/13 07:34	AK	TAL NSH
Total/NA	Analysis	8270D		1	51799	01/17/13 20:46	BS	TAL NSH
Total/NA	Analysis	Moisture		1	51366	01/16/13 14:21	RS	TAL NSH

TestAmerica Nashville

Lab Chronicle

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

TestAmerica Job ID: 490-17098-1

Client Sample ID: 619 Dahlia

Date Collected: 01/10/13 11:35

Date Received: 01/15/13 09:15

Lab Sample ID: 490-17098-6

Matrix: Soil

Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			51444	01/16/13 17:14	ML	TAL NSH
Total/NA	Analysis	8260B		1	51253	01/16/13 19:59	MH	TAL NSH
Total/NA	Prep	3550C			51496	01/17/13 07:34	AK	TAL NSH
Total/NA	Analysis	8270D		1	51799	01/17/13 21:07	BS	TAL NSH
Total/NA	Analysis	Moisture		1	51366	01/16/13 14:21	RS	TAL NSH

Laboratory References:

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

Method Summary

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

TestAmerica Job ID: 490-17098-1

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

TestAmerica Job ID: 490-17098-1

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
Alabama	State Program	4	41150	05-31-13
Alaska (UST)	State Program	10	UST-087	07-24-13
Arizona	State Program	9	AZ0473	05-05-13
Arkansas DEQ	State Program	6	88-0737	04-25-13
California	NELAP	9	1168CA	10-31-13
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Colorado	State Program	8	N/A	02-28-13
Connecticut	State Program	1	PH-0220	12-31-13
Florida	NELAP	4	E87358	06-30-13
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	03-31-13
Massachusetts	State Program	1	M-TN032	06-30-13
Minnesota	NELAP	5	047-999-345	12-31-13
Mississippi	State Program	4	N/A	06-30-13
Montana (UST)	State Program	8	NA	01-01-15
Nevada	State Program	9	TN00032	07-31-13
New Hampshire	NELAP	1	2963	10-09-13
New Jersey	NELAP	2	TN965	06-30-13
New York	NELAP	2	11342	04-01-13
North Carolina DENR	State Program	4	387	12-31-13
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	04-30-13
Pennsylvania	NELAP	3	68-00585	06-30-13
Rhode Island	State Program	1	LAO00268	12-30-13
South Carolina	State Program	4	84009 (001)	02-28-13
South Carolina	State Program	4	84009 (002)	02-23-14
Tennessee	State Program	4	2008	02-23-14
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	02-28-13
Wisconsin	State Program	5	998020430	08-31-13
Wyoming (UST)	A2LA	8	453.07	12-31-13

COOLER RECEIPT FORM



490-17098 Chain of Custody

Cooler Received/Opened On 1/15/2013 @ 0915

1. Tracking # 5740 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: -0.4 Degrees Celsius

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

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

If yes, how many and where: 1 front

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

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

I certify that I opened the cooler and answered questions 1-6 (initial) EA

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 # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) EA

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

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

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

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

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

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

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

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

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

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

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



pg 1013

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2860 Foster Crk
Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-5404

Client Name/Account #: EEG - SBG #2449
Address: 10179 Highway 78
City/State/Zip: Ladson, SC 29456

Project Manager: Tom McElwaine email: mcelwaine@testamc.net

Telephone Number: 863.412.2097

Sample Name: (Print)

Sampler Signature:

Fax No.: 843-879-0401

Site State: SC

PO#: 1063

TA Quote #:

Project ID: Laurel Bay Housing Project

Project #:

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

Compliance Monitoring?

Enforcement Action?

Yes ___ No ___
Yes ___ No ___

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO ₃ (Red Label)	Hol-Pike Label	NaOH (Orange Label)	H ₂ SO ₄ Plus/06 (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	BTEX + Naph - 82608	PAH - 8270D	LOC: 490 17098	RUSH TAT (Pre-Schedule)
356 DARTING	11/8/13	1230	4	X																				
357 DARTING	11/8/13	1230	4	X																				
137 Laurel Bay	11/9/13	1200	4	X																				
QAS DARTING	11/10/13	1130	4	X																				

Laboratory Comments:
Temperature Upon Receipt: -2.1
VOCs Free of Headspace: Y

THE TRADER IN ENVIRONMENTAL TESTING

**Nashville Division
2360 Foster Creighton
Nashville, TN 37204**

Phone: 615-728-0177
Toll Free: 800-795-0860
Fax: 615-728-2404

Check Number/Account #: EEG - 8BG # 2449

Address: 10170 Highway 78

City/State/Zip: Lenoir, NC 28450

Project Manager: Tom McEwen email: mcewen@profiel.nl

Telephone Number: 843.412.2087

Stanislas Dehaene (Prin)

Example Signature:

Fax No: 843-879-0401

【重要】

FOR 1063

Compliance Monitoring?	Yes ☐	No ☐
Enforcement Action?	Yes ☐	No ☐

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

Compliance Monitoring

Enforcement Action?

Yes	Yes
No	No

7A Quote #: _____
Project ID: Lakeview Housing Project
Project #: _____

Project 5

Analysis Form

Analysis For

[illegible]

RUSH TAT Pre-Schedule

Special Instructions:	Laboratory Comments:
28 Daphnia 10/13/35 1350 y X	
562 Daphnia 10/13/35-0 1350 y X	2H
802 Daphnia 10/13/35 1455 y X	5
819 Daphnia 11/01/35 1135 y X	

Laboratory Comments:

Temperature Upon Receipt VOCs First of Handpiece?

4

Relinquished by: 
Relinquished by: _____

Date 1/14/13

Time	0900
------	------

Received by	FM
Received by	

dry

6.04-

Date	
Date	

Time	Time
Time	Time

1000000

* 602 Daria Deleted due to insufficient results. 2/1/99

2017

Login Sample Receipt Checklist

Client: Environmental Enterprise Group

Job Number: 490-17098-1

Login Number: 17098

List Source: TestAmerica Nashville

List Number: 1

Creator: Gambill, Shane

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ATTACHMENT A



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No. US EPA ID No.		Manifest Doc No. 1000000000		2. Page 1 of 1					
3. Generator's Mailing Address: MCAS BEAUFORT LAUREL BAY HOUSING BEAUFORT, SC 29904				Generator's Site Address (if different than mailing): 1000000000 1000000000 1000000000		A. Manifest Number WMNA		01519105			
4. Generator's Phone 843-879-0411						B. State Generator's ID State ID No.					
5. Transporter 1 Company Name 1000000000				6. US EPA ID Number 1000000000		C. State Transporter's ID 1000000000					
						D. Transporter's Phone 1000000000					
7. Transporter 2 Company Name 1000000000				8. US EPA ID Number 1000000000		E. State Transporter's ID 1000000000					
						F. Transporter's Phone 1000000000					
9. Designated Facility Name and Site Address HICKORY HILL LANDFILL 2621 LOW COUNTRY DRIVE RIDGELAND, SC 29936				10. US EPA ID Number 1000000000		G. State Facility ID State ID No.					
						H. State Facility Phone 843-987-4643					
GENERATOR	11. Description of Waste Materials					12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
						No.	Type				
	a. HEATING OIL TANK FILLED WITH SAND WM Profile # 102655SC					1	20yd	7.41	tons	# 700832	
	b. WM Profile #										
	c. WM Profile #										
	d. WM Profile #										
J. Additional Descriptions for Materials Listed Above					K. Disposal Location						
					Cell		Level				
					Grid						
15. Special Handling Instructions and Additional Information USTs from: 1) 557 Dahlia 2) 562 Dahlia 3) 137 Laurel Bay 4) 602 Dahlia 5) 625 Dahlia 6) 619 Dahlia											
Purchase Order #					EMERGENCY CONTACT / PHONE NO.:						
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.											
Printed Name W. G. Adams					Signature "On behalf of"			Month 2	Day 4	Year 13	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials										
	Printed Name PRATH SHAW					Signature [Signature]			Month 2	Day 4	Year 13
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials										
	Printed Name JAMES BALDWIN					Signature James Baldwin			Month 2	Day 6	Year 13
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.											
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.											
Printed Name Jan Collins					Signature [Signature]			Month 02	Day 06	Year 13	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY

Appendix C
Laboratory Analytical Report - Groundwater

Volatile Organic Compounds by GC/MS

Client: AECOM - Resolution Consultants				Laboratory ID: QE28007-004			
Description: BEALB137TW02WG20150527				Matrix: Aqueous			
Date Sampled: 05/27/2015 1320							
Date Received: 05/28/2015							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/02/2015 1140	EH1		76315

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	LOD	DL	Units	Run
Benzene	71-43-2	8260B	0.23	JS	5.0	0.45	0.21	ug/L	1
Ethylbenzene	100-41-4	8260B	0.45	JS	5.0	0.51	0.17	ug/L	1
Naphthalene	91-20-3	8260B	9.9	S	5.0	0.96	0.32	ug/L	1
Toluene	108-88-3	8260B	0.48	US	5.0	0.48	0.16	ug/L	1
Xylenes (total)	1330-20-7	8260B	0.57	US	5.0	0.57	0.19	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	75-120
1,2-Dichloroethane-d4		93	70-120
Toluene-d8		101	85-120
Dibromofluoromethane		99	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

Level 1 Report v2.1

Semivolatile Organic Compounds by GC/MS (SIM)

Client: **AECOM - Resolution Consultants**Laboratory ID: **QE28007-004**Description: **BEALB137TW02WG20150527**Matrix: **Aqueous**Date Sampled: **05/27/2015 1320**Date Received: **05/28/2015**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3520C	8270D (SIM)	1	06/02/2015 1425	RBH	06/01/2015 1430	76221			
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	US	0.20	0.080	0.040	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptance Limits							
2-Methylnaphthalene-d10		83	15-139							
Fluoranthene-d10		82	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

Level 1 Report v2.1

Appendix D

Regulatory Correspondence

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

May 15, 2014

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

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

Dear Mr. Drawdy,

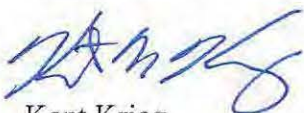
The South Carolina Department of Health and Environmental Control (the Department) received the above referenced Underground Storage Tank Assessment Reports for the addresses listed above. The regulatory authority for the investigation and cleanup of releases from these tank systems is the South Carolina 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 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)

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Attachment to: Krieg to Drawdy
Subject: IGWA
Dated 5/15/2014

Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks)

137 Laurel Bay Tank 2	387 Acorn
139 Laurel Bay	392 Acorn Tank 2
229 Cypress Tank 2	396 Acorn Tank 1
261 Beech Tank 1	396 Acorn Tank 2
261 Beech Tank 3	430 Elderberry
273 Birch Tank 1	433 Elderberry
273 Birch Tank 2	439 Elderberry
273 Birch Tank 3	440 Elderberry
276 Birch Tank 2	442 Elderberry
278 Birch Tank 2	443 Elderberry
291 Birch Tank 2	444 Elderberry Tank 1
300 Ash	445 Elderberry
304 Ash	446 Elderberry
314 Ash Tank 1	448 Elderberry
314 Ash Tank 2	449 Elderberry
322 Ash Tank 2	451 Elderberry
323 Ash	453 Elderberry
324 Ash	456 Elderberry Tank 1
325 Ash Tank 1	456 Elderberry Tank 2
325 Ash Tank 2	458 Elderberry Tank 1
326 Ash	458 Elderberry Tank 3
336 Ash	464 Dogwood
339 Ash	466 Dogwood
343 Ash Tank 1	467 Dogwood
344 Ash Tank 1	468 Dogwood
348 Ash	469 Dogwood
349 Ash Tank 1	471 Dogwood Tank 2
353 Ash Tank 1	471 Dogwood Tank 3
362 Aspen	475 Dogwood Tank 1
376 Aspen	475 Dogwood Tank 2
380 Aspen	516 Laurel Bay Tank 1 (UST#03747)
383 Aspen Tank 2	518 Laurel Bay

Laurel Bay Underground Storage Tank Assessment Reports for: (121 addresses/139 tanks) cont.

531 Laurel Bay	1219 Cardinal
532 Laurel Bay	1272 Albatross
635 Dahlia Tank 2	1305 Eagle
638 Dahlia	1353 Cardinal
640 Dahlia Tank 1	1356 Cardinal
640 Dahlia Tank 2	1357 Cardinal
645 Dahlia	1359 Cardinal
647 Dahlia	1360 Cardinal
648 Dahlia Tank 2	1361 Cardinal
650 Dahlia Tank 1	1368 Cardinal
650 Dahlia Tank 2	1370 Cardinal Tank 1
652 Dahlia Tank 1	1377 Dove
652 Dahlia Tank 2	1381 Dove
760 Althea	1382 Dove
763 Althea	1384 Dove
771 Althea	1385 Dove
927 Albacore	1389 Dove
1015 Foxglove	1391 Dove
1046 Gardenia	1392 Dove
1062 Gardenia Tank 2	1393 Dove Tank 1
1070 Heather	1393 Dove Tank 2
1072 Heather	1406 Eagle
1102 Iris Tank 1	1407 Eagle Tank 1
1107 Iris	1411 Eagle Tank 1
1126 Iris	1411 Eagle Tank 2
1129 Iris	1412 Eagle
1132 Iris	1413 Albatross
1133 Iris Tank 1	1414 Albatross
1138 Iris	1422 Albatross
1144 Iris Tank 1	1425 Albatross
1144 Iris Tank 2	1426 Albatross
1148 Iris Tank 1	1432 Dove
1148 Iris Tank 2	1434 Dove
1161 Jasmine	1436 Dove
1167 Jasmine	1438 Dove Tank 1
1170 Jasmine	1440 Dove
1190 Bobwhite	1442 Dove Tank 1
1192 Bobwhite	



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

February 22, 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-May and June 2015
Laurel Bay Military Housing Area Multiple Properties
Dated October 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 addresses attached. 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 52 stated addresses. For the remaining 91 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-May and June 2015
 Specific Property Recommendations
 Dated February 22, 2016

Draft Final Initial Groundwater Investigation Report for (143 addresses)

Permanent Monitoring Well Investigation recommendation (52 addresses)

273 Birch Drive	1192 Bobwhite Drive
325 Ash Street	1194 Bobwhite Drive
326 Ash Street	1272 Albatross Drive
336 Ash Street	1352 Cardinal Lane
343 Ash Street	1356 Cardinal Lane
353 Ash Street	1359 Cardinal Lane
430 Elderberry Drive	1360 Cardinal Lane
440 Elderberry Drive	1362 Cardinal Lane
456 Elderberry Drive	1370 Cardinal Lane
458 Elderberry Drive	1382 Dove Lane
468 Dogwood Drive	1384 Dove lane
518 Laurel Bay Blvd	1385 Dove Lane
635 Dahlia Drive	1389 Dove Lane
638 Dahlia Drive	1392 Dove Lane
640 Dahlia Drive	1393 Dove Lane
647 Dahlia Drive	1407 Eagle Lane
648 Dahlia Drive	1411 Eagle Lane
650 Dahlia Drive	1418 Albatross Drive
652 Dahlia Drive	1420 Albatross Drive
760 Althea Street	1426 Albatross Drive
1102 Iris Lane	1429 Albatross Drive
1132 Iris Lane	1434 Dove Lane
1133 Iris Lane	1436 Dove Lane
1144 Iris Lane	1440 Dove Lane
1148 Iris Lane	1442 Dove Lane
1186 Bobwhite Drive	1444 Dove Lane

No Further Action recommendation (91 addresses):

137 Laurel Bay Blvd	771 Althea Street
139 Laurel Bay Blvd	927 Albacore Street
229 Cypress Street	1015 Foxglove Street
261 Beech Street	1046 Gardenia Drive
276 Birch Drive	1062 Gardenia Drive
278 Birch Drive	1070 Heather Street
291 Birch Drive	1072 Heather Street

300 Ash Street	1107 Iris Lane
304 Ash Street	1126 Iris Lane
314 Ash Street	1129 Iris Lane
322 Ash Street	1138 Iris Lane
323 Ash Street	1161 Jasmine Street
324 Ash Street	1167 Jasmine Street
339 Ash Street	1170 Jasmine Street
344 Ash Street	1190 Bobwhite Drive
348 Ash Street	1219 Cardinal Lane
349 Ash Street	1305 Eagle Lane
362 Aspen Street	1353 Cardinal Lane
376 Aspen Street	1354 Cardinal Lane
380 Aspen Street	1357 Cardinal Lane
383 Aspen Street	1361 Cardinal Lane
387 Acorn Drive	1364 Cardinal Lane
392 Acorn Drive	1368 Cardinal Lane
396 Acorn Drive	1377 Dove Lane
433 Elderberry Drive	1381 Dove Lane
439 Elderberry Drive	1391 Dove Lane
442 Elderberry Drive	1403 Eagle Lane
443 Elderberry Drive	1404 Eagle Lane
444 Elderberry Drive	1405 Eagle Lane
445 Elderberry Drive	1406 Eagle Lane
446 Elderberry Drive	1408 Eagle Lane
448 Elderberry Drive	1410 Eagle Lane
449 Elderberry Drive	1412 Eagle Lane
451 Elderberry Drive	1413 Albatross Drive
453 Elderberry Drive	1414 Albatross Drive
464 Dogwood Drive	1417 Albatross Drive
466 Dogwood Drive	1421 Albatross Drive
467 Dogwood Drive	1422 Albatross Drive
469 Dogwood Drive	1425 Albatross Drive
471 Dogwood Drive	1427 Albatross Drive
475 Dogwood Drive	1430 Dove Lane
516 Laurel Bay Blvd	1432 Dove Lane
531 Laurel Bay Blvd	1438 Dove Lane
532 Laurel Bay Blvd	1453 Cardinal Lane
645 Dahlia Drive	1455 Cardinal Lane
763 Althea Street	