

**SUMMARY REPORT
81 BAY CIRCLE (FORMERLY 7 BAY CIRCLE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC**

**Revision: 0
Prepared for:**

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

and



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

JUNE 2021

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Prepared by:

CDM - AECOM
Multimedia Joint Venture

**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 81 Bay Circle (Formerly 7 Bay Circle). 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.

The LBMH UST removal and assessment process is described below in Section 1.2. The LBMH multi-media investigation selection process tree, used to evaluate the environmental impact of USTs for most sites at LBMH, is presented in Appendix A. It should be noted that because the USTs were removed prior to 2007, the subject property of this report did not follow the typical multi-media investigation selection process presented in Appendix A.

1.2 UST Removal and Assessment Process

As stated above, the assessment process at this property did not follow the typical process presented in Appendix A.

During the UST removal process, soil samples were collected from around 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 hydrocarbons (PAHs): benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and dibenz(a,h)anthracene.

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

A groundwater sample was also collected from the base of the excavation and analyzed for the petroleum COPCs.

The results of the soil and groundwater sampling at each former UST location were used to determine the presence or absence of petroleum COPCs in soil and/or groundwater and identify whether former UST locations may require additional delineation of COPCs in soil and groundwater. The results of the additional soil sampling and initial groundwater assessment (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.

2.0 SAMPLING ACTIVITIES AND RESULTS

The following section presents the sampling activities and associated results for 81 Bay Circle (Formerly 7 Bay Circle). Details regarding the soil and groundwater investigation conducted during the UST removal at this site are provided in the *SCDHEC UST Assessment Report – 7 Bay Circle* (MCAS Beaufort, 2004). The UST Assessment Report is provided in Appendix B. Details regarding the additional soil and IGWA sampling activities at this site are provided in the *Tier II*

Assessment Report Laurel Bay Housing Area 1, 7, 8, 9 and 10 Bay Circle (ADVENT Environmental, Inc., 2005). The laboratory reports that include the pertinent soil and IGWA analytical results for this site are presented in Appendices C and D, respectively.

2.1 UST Removal and Sampling Activities

On August 27, 2004, a single 280 gallon heating oil UST was removed from the front grassed area adjacent to the house at 81 Bay Circle (Formerly 7 Bay Circle). The former UST location is indicated on the figure included in the UST Assessment Report (Appendix B). The UST was removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). Visual evidence (i.e., staining or sheen) of petroleum impact was recorded at the time of the UST removal. According to the UST Assessment Report (Appendix B), the depth to the base of the UST was 4'6" bgs. Delineation soil samples were collected prior to excavation.

A groundwater sample was collected from the base of the excavation, following the UST removal at 81 Bay Circle (Formerly 7 Bay Circle). Further details are provided in the *SCDHEC UST Assessment Report – 7 Bay Circle* (MCAS Beaufort, 2004).

Soil and groundwater samples were collected 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 UST Removal Soil and Groundwater Analytical Results

A summary of the soil laboratory analytical results and SCDHEC RBSLs is presented in Table 1. A summary of the groundwater laboratory analytical results and SCDHEC RBSLs is presented in Table 2. A copy of the laboratory analytical data reports are included in the UST Assessment Report presented in Appendix B. The laboratory analytical data reports include the soil and groundwater results for the additional PAHs that were analyzed, but do not have associated RBSLs.

The soil and groundwater sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil and groundwater 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 and groundwater results collected from 81 Bay Circle (Formerly 7 Bay Circle) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated

December 2, 2004, SCDHEC requested additional assessment for 81 Bay Circle (Formerly 7 Bay Circle). SCDHEC's request letter is provided in Appendix E.

2.3 Tier 2 Soil Sampling

In May 2005, three soil borings were advanced at 81 Bay Circle (Formerly 7 Bay Circle). The soil borings were collocated with the temporary monitoring wells discussed in Section 2.5. A single soil sample was collected from each soil boring and shipped to an offsite laboratory for analysis of the petroleum COPCs. Further details are provided in the *Tier II Assessment Report Laurel Bay Housing Area 1, 7, 8, 9 and 10 Bay Circle* (ADVENT Environmental, Inc., 2005).

2.4 Tier 2 Soil Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 3. A copy of the laboratory analytical data reports are included as Appendix C.

The soil results collected from 81 Bay Circle (Formerly 7 Bay Circle) were less than the SCDHEC RBSLs (Table 3), which indicated that the soil was not impacted by COPCs associated with the former UST at concentrations that present a potential risk to human health and the environment.

2.5 Tier 2 Groundwater Sampling

In May 2005, the three soil borings were converted into temporary monitoring wells and then sampled at 81 Bay Circle (Formerly 7 Bay Circle), in accordance with the South Carolina Well Standards and Regulations (R.61-71.H-I, updated June 24, 2016). Further details are provided in the *Tier II Assessment Report Laurel Bay Housing Area 1, 7, 8, 9 and 10 Bay Circle* (ADVENT Environmental, Inc, 2005).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporarily installed monitoring wells. Following well installation, groundwater samples were collected via grab methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Upon completion of groundwater sampling, the temporary wells were abandoned in accordance with the South Carolina Well Standards and Regulations R.61-71 (SCDHEC, 2016). Field forms are provided in the *Tier II Assessment Report Laurel Bay Housing Area 1, 7, 8, 9 and 10 Bay Circle* (ADVENT Environmental, Inc, 2005).

2.6 Tier 2 Groundwater Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 4. A copy of the laboratory analytical data report is included in Appendix D.

The groundwater results collected from 81 Bay Circle (Formerly 7 Bay Circle) were less than the SCDHEC RBSLs and the site-specific groundwater VISLs (Table 4), 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 from the temporary monitoring wells, SCDHEC made the determination that NFA was required for 81 Bay Circle (Formerly 7 Bay Circle). This NFA determination was obtained in a letter dated October 27, 2005. SCDHEC's NFA letter is provided in Appendix E.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2004. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 7 Bay Circle, Laurel Bay Military Housing Area*, November 2004.

ADVENT Environmental, Inc., 2005. *Tier II Assessment Report Laurel Bay Housing Area 1, 7, 8, 9 and 10 Bay Circle Marine Corps Air Station, Beaufort, South Carolina*, September 2005.

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 - UST Assessment Report
81 Bay Circle (Formerly 7 Bay Circle)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Samples Collected 07/13/04					
		07SB01	07SB02	07SB03	07SB04	07SB05	07SB06
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)							
Benzene	0.003	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.551	ND	0.058	ND	ND	ND	ND
Naphthalene	0.047	ND	0.450	0.0091	ND	ND	ND
Toluene	0.627	ND	ND	ND	ND	ND	ND
Xylenes, Total	13.01	ND	0.0215	ND	ND	ND	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270C (mg/kg)							
Benzo(a)anthracene	0.066	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.066	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.066	ND	ND	ND	ND	ND	ND
Chrysene	0.066	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	0.066	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 1.0 (SCDHEC, May 2001).

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 - UST Assessment Report
81 Bay Circle (Formerly 7 Bay Circle)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 08/26/04
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)		
Benzene	5	ND
Ethylbenzene	700	470
Naphthalene	25	3700
Toluene	1,000	760
Xylenes, Total	10,000	2,800
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)		
Benzo(a)anthracene	10	ND
Benzo(b)fluoranthene	10	ND
Benzo(k)fluoranthene	10	ND
Chrysene	10	ND
Dibenz(a,h)anthracene	10	ND

Notes:

⁽¹⁾ South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 1.0 (SCDHEC, May 2001).

Bold font indicates the analyte was detected.

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

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 B.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

Table 3
Laboratory Analytical Results - Soil - Tier 2 Assessment
81 Bay Circle (Formerly 7 Bay Circle)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs ⁽¹⁾	Results Sample Collected 05/20/05		
		010SB10	010SB11	010SB12
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)				
Benzene	0.007	ND	ND	ND
Ethylbenzene	1.15	ND	ND	ND
Naphthalene	0.036	ND	ND	ND
Toluene	1.45	ND	ND	ND
Xylenes, Total	14.5	ND	ND	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270C (mg/kg)				
Benzo(a)anthracene	0.066	ND	ND	ND
Benzo(b)fluoranthene	0.066	ND	ND	ND
Benzo(k)fluoranthene	0.066	ND	ND	ND
Chrysene	0.066	ND	ND	ND
Dibenz(a,h)anthracene	0.066	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 1.0 (SCDHEC, May 2001).

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 C.

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

Table 4
Laboratory Analytical Results - Groundwater - Tier 2 Assessment
81 Bay Circle (Formerly 7 Bay Circle)
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 05/23/05		
			10TMW10	10TMW11	10TMW12
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)					
Benzene	5	16.24	ND	ND	ND
Ethylbenzene	700	45.95	ND	ND	1.4
Naphthalene	25	29.33	ND	ND	16
Toluene	1,000	105,445	ND	ND	ND
Xylenes, Total	10,000	2,133	ND	ND	ND
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (µg/L)					
Benzo(a)anthracene	10	NA	ND	ND	ND
Benzo(b)fluoranthene	10	NA	ND	ND	ND
Benzo(k)fluoranthene	10	NA	ND	ND	ND
Chrysene	10	NA	ND	ND	ND
Dibenz(a,h)anthracene	10	NA	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 1.0 (SCDHEC, May 2001).

(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 D.

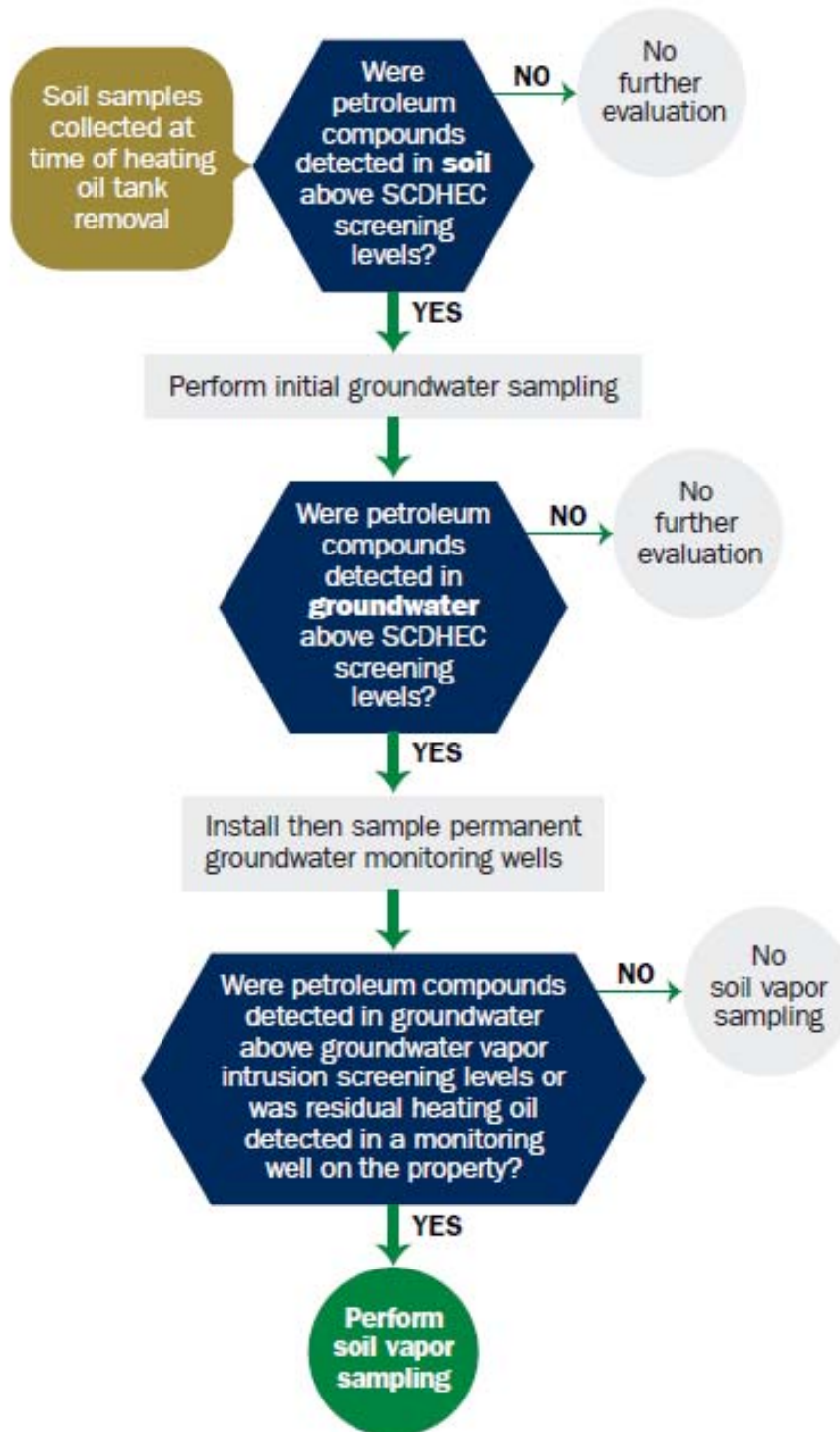
RBSL - Risk-Based Screening Level

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 Report

02769

ASSESSMENT REPORT

LAUREL BAY HOUSING AREA, # 7-LAUREL BAY
MARINE CORPS AIR STATION, BEAUFORT, SOUTH CAROLINA

Prepared for:



Naval Facilities Engineering Command
North Charleston, South Carolina

Contract Number
N62467-04-M-0113

Prepared By:

ADVENT Environmental, Inc.
498 Wando Park Blvd.
Suite 500
Mt. Pleasant SC 29464

RECEIVED
NOV 29 2004
Water Monitoring Assessment & Protection Division

A handwritten signature in black ink, appearing to read "BRC".

Brian R. Crawford, R.E.M
Project Manager

A handwritten signature in black ink, appearing to read "Jeffrey C. Smoak".

Jeffrey C. Smoak, P.E.
Principal

September 2004
ADVENT 04-515

A large, yellow handwritten mark resembling a stylized "X" or a checkmark, located in the bottom right corner of the page.

2012

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1000 16TH ST NW
WASHINGTON DC 20004

Executive Summary

The initial Statement of Work was to remove two Underground Storage Tanks (UST) at 7 Bay Circle in the Laurel Bay Housing Area at the Marine Corps Air Station in Beaufort, South Carolina.

Soils were sampled prior to excavation and were used as delineation samples for soil removal. While onsite performing the UST removal, one additional UST was found in relation to the site. A NAVFAC Southern Division representative was onsite and approved the removal of the additional UST. Because all three tanks were within the boundaries of the delineation soil samples, no additional soil samples were needed.

The three USTs, along with the contaminated soils, were removed and disposed of (see assessment report). During the tank removal one (1) ground-water sample was collected from the excavation. Samples were sent to a certified laboratory and tested for constituents as required by the South Carolina Department of Health and Environmental Control (DHEC) guidance document dated March 15, 2000. Personal Protective Equipment (PPE) and other plastic debris were contained in the 20 yard dumpsters along with the contaminated soils. Decon water was vacuumed out of the decon pad area with the vacuum truck.

The excavation was backfilled and compacted in two separate lifts. Each lift was compacted to >95% as demonstrated on the attached compaction test results.

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

Date Received
State Use Only

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

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	
Street Address or State Road (as applicable)	7 Laurel Bay Circle
Beaufort	Beaufort
City	County

III. CLOSURE INFORMATION

August 26, 2004	August 27, 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)	A. G. Howard
Signature	<i>A. G. Howard</i>

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					
8-27-04					
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 found inside in Tank #7-1 was vacuumed out (see manifest).

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 (7 Laruel Bay Circle) was built

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

storage tanks were used to heat 7 Laurel Bay Circle. There are no records

available confirming date the tanks were last used.

VIII. SITE CONDITIONS

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

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.
Groundwater samples were collected using Grab Method and stored at 4 C using ice.

Methods: Soil: BTEX-8260; Naphthalene 8260; PAH 8270. Soil samples were collected prior to excavation and used as delineation boundaries.

Methods Water: BTEX-8260; Naphthalene-8260; PAH-8270; MtBE-8260. Groundwater was sampled after removal of the tanks.

Prior to excavating, soil samples were collected in two foot intervals and screened with an OVA. The interval from each boring with the highest reading was sent to a certified laboratory to be analysed for BTEX, Naphthalene, and PAHs. These borings were used as the delineation points for the UST excavation area.

XI. RECEPTORS

	Yes	No
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?</p> <p>If yes, indicate type of receptor, distance, and direction on site map. See Site Map</p>	X	
<p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p>		X
<p>C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system?</p> <p>If yes, indicate type of structure, distance, and direction on site map.</p>		X
<p>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?</p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p>	X	
<p>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?</p> <p>If yes, indicate the area of contaminated soil on the site map.</p>		X

SITE PHOTOS OF TANK REMOVALS



7 Bay Circle- Fill cap



7 Bay Circle- Tank 7-1 being cut and deconed.



7 Bay Circle- During compaction testing

SITE MAP
MARINE CORPS AIR STATION
7 LAUREL BAY, BEAUFORT, SOUTH CAROLINA

7 BAY CIRCLE MCAS BEAUFORT



1551

1550

BROAD RIVER



300 150 0 150 300 600 Feet

7 BAY CIRCLE

LAUREL BAY #7

07SB02 7/13/2004		RBSL Clay Rich Soils	
Constituents	Result	(ug/kg)	(ug/kg)
Volatile Organic Compounds			
Method 8260	ND	3	
Benzene	ND	627	
Toluene	ND	1551	
Ethylbenzene	58	13010	
Xylenes	21.5	47	
Naphthalene	450		
Semi-Volatile Organic Compounds			
Method 8270	ND	66	
Benzo(a)anthracene	ND	66	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Chrysene	ND	66	
Dibenz(a,h)anthracene	ND	66	

07SB04 7/13/2004		RBSL Clay Rich Soils	
Constituents	Result	(ug/kg)	(ug/kg)
Volatile Organic Compounds			
Method 8260	ND	3	
Benzene	ND	627	
Toluene	ND	1551	
Ethylbenzene	ND	13010	
Xylenes	ND	47	
Naphthalene	ND		
Semi-Volatile Organic Compounds			
Method 8270	ND	66	
Benzo(a)anthracene	ND	66	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Chrysene	ND	66	
Dibenz(a,h)anthracene	ND	66	

07SB06 7/13/2004		RBSL Clay Rich Soils	
Constituents	Result	(ug/kg)	(ug/kg)
Volatile Organic Compounds			
Method 8260	ND	3	
Benzene	ND	627	
Toluene	ND	1551	
Ethylbenzene	ND	13010	
Xylenes	ND	47	
Naphthalene	ND		
Semi-Volatile Organic Compounds			
Method 8270	ND	66	
Benzo(a)anthracene	ND	66	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Chrysene	ND	66	
Dibenz(a,h)anthracene	ND	66	

07GW01 8/26/2004		RBSL Ground-water	
Constituents	Result	(ug/l)	(ug/l)
Volatile Organic Compounds			
Method 8260	ND	5	
Benzene	ND	1000	
Toluene	760	700	
Ethylbenzene	470	10000	
Xylenes	2800	25	
Naphthalene	3700		
Semi-Volatile Organic Compounds			
Method 8270	ND	10	
Benzo(a)anthracene	ND	10	
Benzo(b)fluoranthene	ND	10	
Benzo(k)fluoranthene	ND	10	
Chrysene	ND	10	
Dibenz(a,h)anthracene	ND	10	

07SB03 7/13/2004		RBSL Clay Rich Soils	
Constituents	Result	(ug/kg)	(ug/kg)
Volatile Organic Compounds			
Method 8260	ND	3	
Benzene	ND	627	
Toluene	ND	1551	
Ethylbenzene	ND	13010	
Xylenes	ND	47	
Naphthalene	9.1		
Semi-Volatile Organic Compounds			
Method 8270	ND	66	
Benzo(a)anthracene	ND	66	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Chrysene	ND	66	
Dibenz(a,h)anthracene	ND	66	

07SB05 7/13/2004		RBSL Clay Rich Soils	
Constituents	Result	(ug/kg)	(ug/kg)
Volatile Organic Compounds			
Method 8260	ND	3	
Benzene	ND	627	
Toluene	ND	1551	
Ethylbenzene	ND	13010	
Xylenes	ND	47	
Naphthalene	ND		
Semi-Volatile Organic Compounds			
Method 8270	ND	66	
Benzo(a)anthracene	ND	66	
Benzo(b)fluoranthene	ND	66	
Benzo(k)fluoranthene	ND	66	
Chrysene	ND	66	
Dibenz(a,h)anthracene	ND	66	

07-SB-01

07-SB-02

07-SB-03

07-SB-04

07-SB-05

07-SB-06

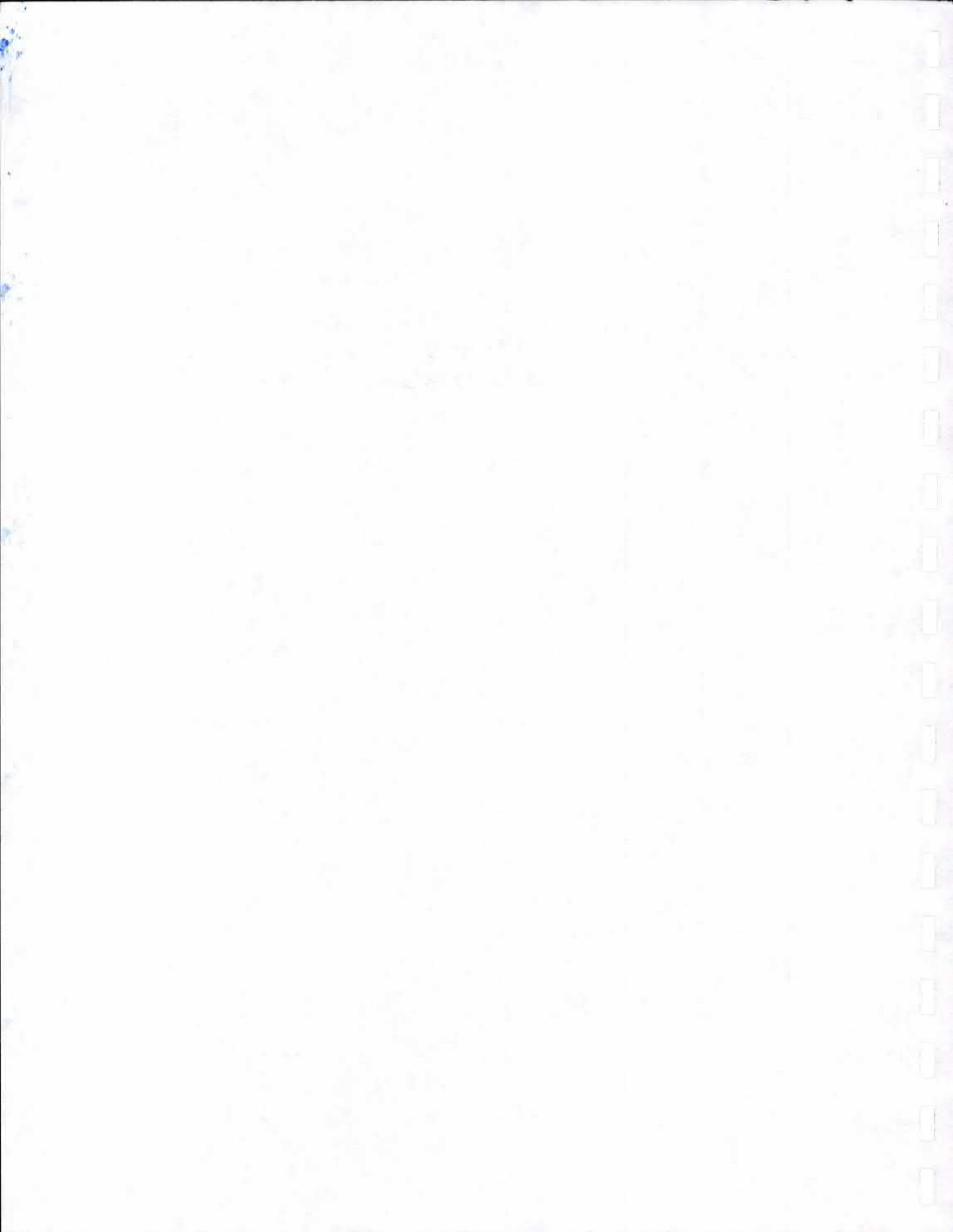


7 LAUREL BAY CIRCLE
MARINE CORPS AIR STATION
BEAUFORT, SC

CONCENTRATIONS OF CONSTITUENTS OF
CONCERN DETECTED AT SOIL BORINGS



**MANIFESTS FOR OILY WATER
DISPOSAL**



US Water Recovery

565

Non-Hazardous Wastewater Manifest		Number: 565		
1. Generator's EPA ID# (if applicable):		Waste ID Number:		
2. Generator's Name and Mailing Address: Marine Corp Air Station Laural Bay Housing Beaufort, NC 29902		Phone (843) 225-7124 A.G. Howard Commanding Officer A1111 WREAB PO Box 5501 Beaufort NC 29904		
3. Agent of Generator and Mailing Address:		Phone () P O #:		
4. Transporter Company Name: Sani-Tech Environment, LLC P O Box 71619 Charleston, SC 29415		Phone: (843) 744-0406		
5. Transporter U.S. EPA ID#: SCR000005363		Truck & Trailer License Number:		
6. Facility Name and Site Address: U S Water Recovery 435 Old Mt. Holly Rd. Mt. Holly, SC 29445		Mailing Address: U S Water Recovery P O Box 70397 North Charleston, SC 29415		
Phone: (843) 797-8874 Fac: (843) 797-2125		Phone: (843) 744-0118 Fax: (843) 744-0790		
7. Facility U.S. EPA ID#:		Total Gallons:		
Start Level: End Level:		Tank Number: 1		
8. U.S. DOT Description	Container		Unit	Quantity
	No.	Type		
Non-Hazardous, non-regulated waste water	1	T	2-102	1,000
9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.				
Printed/Typed Name: J. G. Duke		Signature: [Signature]		Date: 8-26-04
10. Transporter Acknowledgment of Receipt of Materials		Signature: [Signature]		Date: 8/26/04
Printed/Typed Name: [Name]		Signature: [Signature]		Date: 8/26/04
11. Discrepancy Indication space:				
12. Facility Owner or Operator: Certification of Receipt of Materials		Signature: [Signature]		Date: 8-26-04
Printed/Typed Name: David Wood		Signature: [Signature]		Date: 8-26-04

White - Facility Yellow - Transporter Pink - Generator

**MANIFESTS FOR
CONTAMINATED SOILS**

FROM : MCAS BEAUFORT NREAD

FAX NO. :

Sep. 09 2004 07:08AM P3

08/31/2004 15:12 GLOBAL ENVIRONMENTAL ASSURANCE + 18433881891
07/07/2004 11:48 RAI 18435633370

NO. 484 0802



OAKRIDGE LANDFILL
A WASTE MANAGEMENT COMPANY

SPECIAL WASTE MANIFEST

Manifest # 090304

Approval # VB 3878
Expiration 06/25/05

LP* 7 roll-off LBC

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.
127-6461

Generator Signature: W.G. Dukes, Jr.

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

Transporter of Waste: GLOBAL ENVIRO ASSURANCE Track: _____

Date: _____ Driver's Signature: _____

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

Disposal Site: Oakridge Landfill DWP 130

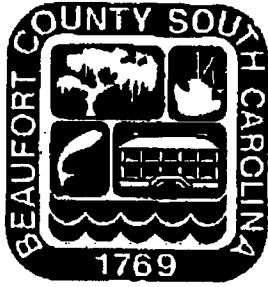
Description of Waste: SOL/UST REMOVAL

Ticket Number: _____ Tonnage: _____

Received By: _____ Date: _____

2183 HWY 78, (POB 143), DORCHESTER, SC 29437
TEL: 843-563-2607, FAX: 843-563-4158

**MANIFESTS FOR SCRAP
METAL DISPOSAL**



Beaufort County Public Works
Solid Waste and Recycling Division
120 Shanklin Road
Beaufort, South Carolina 29906
843-470-6406 phone 843-470-6422 fax

FACSIMILE TRANSMISSION

To: Brian Crawford

Phone: _____ Fax: 843-388-1891

From: Jim Minor, Superintendent
Solid Waste and Recycling

Date: Aug 10, 2004 # of pages: 2

Comments: Hope this helps.

Jim Minor



BEAUFORT COUNTY PUBLIC WORKS
120 Shanklin Road
Beaufort, South Carolina 29906
Voice (843) 470-6400 Facsimile (843) 470-6418



Date August 10, 2004

TO WHOM IT MAY CONCERN:

Beaufort County maintains a facility for scrap metal and white goods at Shanklin Road, Beaufort, S.C. Receipts are not issued for the material as it is received, as we have no requirement or means for weighing the material.

Through an agreement between Beaufort County and Charleston Steel, Inc. all material we receive is removed and recycled as scrap metal.

James S. Minor, Jr.
Solid Waste and Recycling Superintendent





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

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

Origination of recyclable materials:
Laurel Bay - 7 + Laurel Bay (a-1) Project 04-515
TANKS (7-1)

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.

James W. Weeg
PRINT (ADVENT REPRESENTATIVE)

[Signature] 27 Aug 04
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)

Robert Wells 8-27-04
SIGNATURE DATE

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

PROCTOR TESTING RESULTS

ANALYTICAL RESULT SUMMARY PAGE

Table 1: Summary of Soil Analytical Data
Housing 7 Laurel Bay MCAS Beaufort

Soil Results

Constituents	07SB01 7/13/2004		07SB02 7/13/2004		07SB03 7/13/2004		07SB04 7/13/2004		07SB05 7/13/2004		07SB06 7/13/2004	
	Result	RBSL Clay Rich Soils (ug/kg)	Result	RBSL Clay Rich Soils (ug/kg)	Result	RBSL Clay Rich Soils (ug/kg)	Result	RBSL Clay Rich Soils (ug/kg)	Result	RBSL Clay Rich Soils (ug/kg)	Result	RBSL Clay Rich Soils (ug/kg)
Volatile Organic Compounds Method 8260												
Benzene	ND	3	ND	3	ND	3	ND	3	ND	3	ND	3
Toluene	ND	627	ND	627	ND	627	ND	627	ND	627	ND	627
Ethylbenzene	ND	1551	58	1551	ND	1551	ND	1551	ND	1551	ND	1551
Xylenes	ND	13010	21.5	13010	ND	13010	ND	13010	ND	13010	ND	13010
Naphthalene	ND	47	450	47	9.1	47	ND	47	ND	47	ND	47
Semi-Volatile Organic Compounds Method 8270												
Benz(a)anthracene	ND	66	ND	66	ND	66	ND	66	ND	66	ND	66
Benzo(b)fluoranthene	ND	66	ND	66	ND	66	ND	66	ND	66	ND	66
Benzo(k)fluoranthene	ND	66	ND	66	ND	66	ND	66	ND	66	ND	66
Chrysene	ND	66	ND	66	ND	66	ND	66	ND	66	ND	66
Dibenz(a,h)anthracene	ND	66	ND	66	ND	66	ND	66	ND	66	ND	66

Ground-water Results

Constituents	07GN01 8/26/2004	
	Result	RBSL Ground-water
Volatile Organic Compounds Method 8260		
Benzene	ND	5
Toluene	760	1000
Ethylbenzene	470	700
Xylenes	2800	10000
Naphthalene	3760	25
Semi-Volatile Organic Compounds Method 8270		
Benz(a)anthracene	ND	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Chrysene	ND	10
Dibenz(a,h)anthracene	ND	10

ND = Not detected below the RBSLs
RBSL = Raised Based Screening Levels
ug/kg = micrograms per kilogram
ug/L = micrograms per Liter

**CHAIN OF CUSTODY AND ANALYTICAL
RESULTS**



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

854981

Section C
To Be Completed by Pace Analytical and Client
Quote Reference:

Section B
Required Client Information:
Report To: **SHARON CROGG**
Copy To: **SHARON CROGG**

Section A
Required Client Information:
Company: **ADVENT ENV**
Address: **498 Wingo PK**
Sike SPD
WMA Pleasant SC 29464
33881851 Fax: **3881891**

Project Manager:
Project #: **9271542**
Profile #: **1554 15**
Requested Analysis: **BRK - MAP**

Client Information (Check quote/contract):
Requested Date: **TAT**
*Turn around time less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Required Client Information:
Invoice To: **ADVENT ENV.**
P.O. #:
Project Name: **04-515**
Project Number: **04-515**

#	ITEM	Section D SAMPLE ID One character per box. (A-Z, 0-9, /)	Sample IDs MUST BE UNIQUE	Med Matrix Codes CODE DRINKING WATER GROUND WATER SURFACE WATER WASTE WATER PRECIPITATION OIL WIFE AIR OTHER	MATRIX CODE	SAMPLE TYPE	G-RAB COMP	COLLECTED		PRESERVATIVES	REMARKS / Lab ID
								START DATE	END DATE		
1	095B01							7-12-05	0945		924947032
2	095B02							7-12-05	1015		924947040
3	095B03							7-12-05	1105		924947057
4	095B04							7-12-05	1130		9249470715
5	095B05							7-12-05	1145		9249470723
6	095B06							7-12-05	1200		9249470722
7	085B01							7-12-05	1400		92494707830
8	085B02							7-13-05	1845		92494707040
9	085B03							7-13-05	1500		92494707055
10	085B04							7-13-05	1600		92494707063
11	085B05							7-13-05	0905		92494707071
12	085B06							7-13-05	0915		92494707089

REGULATORY AGENCY	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
<input type="checkbox"/> NPDES					
<input type="checkbox"/> GROUND WATER					
<input type="checkbox"/> RCRA					
<input type="checkbox"/> UST					
<input type="checkbox"/> DRINKING WATER					
<input type="checkbox"/> Other					

SAMPLE NOTES

Temp in °C: **1.3**

Received on Ice: **DN**

Sealed Cooler: **DN**

Samples Intact: **DN**

Additional Comments:

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: **ERIC MILLER**
SIGNATURE of SAMPLER: *[Signature]*
DATE Signed: **7/14/05**

SEE REVERSE SIDE FOR INST...

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

854979

To Be Completed by Paces Analytical and Client
 Quick Reference: Section G

Page: 2 of 2

Section B

Required Client Information:

Report To: _____
 Copy To: _____
 Invoice To: _____
 P.O. _____
 Project Name: _____
 Project Number: _____

Section A

Required Client Information:

Company: _____
 Address: _____
 Phone: _____
 Fax: _____

Client Information (Check quote/contract):
 Requested Due Date: _____
 *TAT: _____
 *Turn around time less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
 Turn Around Time (TAT) in calendar days: _____

Project Manager: _____
 Project #: _____
 Profile #: _____
 Requested Analysis: _____

Remarks / Lab ID
 924967997
 924467905
 924467913
 924467921
 924467933
 924467954
 924467962
 924467970
 924467980
 924467990

ITEM #	DATE	TIME	START	END	DATE	TIME	SAMPLE TEMP	Preservatives									
								Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O8	Methanol	Other		
1	7-13	0945															
2	7-13	1015															
3		1045															
4		1115															
5		1130															
6		1145															
7		1300															
8		1310															
9		1330															
10		1345															

Valid Matrix Codes:
 DRINKING WATER
 GROUND WATER
 SURFACE WATER
 WASTE WATER
 WASTE PRODUCT
 SOIL
 WIFE
 AIR
 OTHER

Matrix Code:
 CODE
 DW
 GW
 SW
 WW
 WP
 S
 A
 O

REGULATORY AGENCY
 NC SC GA NPDES GROUND WATER DRINKING WATER
 Other UST RCRA Other

SAMPLE NOTES
 Temp in °C: 13
 Received on Ice: N
 Sealed Cooler: N
 Samples Intact: N

Additional Comments:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER: _____
 DATE Signed: 7/13/07

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev. 0804



Pace Analytical Services, Inc.
 9800 Kincey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

Lab Project Number: 9271562
 Client Project ID: 04-515

Lab Sample No: 924467897 Project Sample Number: 9271562-013 Date Collected: 07/13/04 09:45
 Client Sample ID: 078B01 Matrix: Soil Date Received: 07/14/04 09:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	Req/Lmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	10.6	%			1.0	07/15/04 10:47	TSE		
GC/MS Semivolatiles									
Semivolatile Organics Prep/Method: EPA 3545 / EPA 8270									
Benzo(k)fluoranthene	ND	ug/kg	370		1.1	07/19/04 16:22	BET	207-08-9	
Benzo(b)fluoranthene	ND	ug/kg	370		1.1	07/19/04 16:22	BET	205-99-2	
Benzo(a)anthracene	ND	ug/kg	370		1.1	07/19/04 16:22	BET	56-55-3	
Chrysene	ND	ug/kg	370		1.1	07/19/04 16:22	BET	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	370		1.1	07/19/04 16:22	BET	53-70-3	
Nitrobenzene-d5 (S)	28	%			1.0	07/19/04 16:22	BET	4165-60-0	
2-Fluorobiphenyl (S)	34	%			1.0	07/19/04 16:22	BET	321-60-8	
Terphenyl-d14 (S)	68	%			1.0	07/19/04 16:22	BET	1718-51-0	
Date Extracted	07/18/04					07/18/04			

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level	Method: EPA 8260	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	Req/Lmt
Benzene	ND	ug/kg	5.6		1.1	07/20/04 19:12	MSF	71-43-2		
Ethylbenzene	ND	ug/kg	5.6		1.1	07/20/04 19:12	MSF	100-41-4		
Naphthalene	ND	ug/kg	5.6		1.1	07/20/04 19:12	MSF	91-20-3		
Toluene	ND	ug/kg	5.6		1.1	07/20/04 19:12	MSF	108-88-3		
m,p-Xylene	ND	ug/kg	11.		1.1	07/20/04 19:12	MSF			
o-Xylene	ND	ug/kg	5.6		1.1	07/20/04 19:12	MSF	95-47-6		
Toluene-d8 (S)	94	%			1.0	07/20/04 19:12	MSF	2037-26-5		
4-Bromofluorobenzene (S)	102	%			1.0	07/20/04 19:12	MSF	460-00-4		
Dibromofluoromethane (S)	90	%			1.0	07/20/04 19:12	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	%			1.0	07/20/04 19:12	MSF	17060-07-0		

Date: 07/22/04

Page: 13 of 34

Asheville Certification IDs
 NC Wastewater 40
 NC Drinking Water 37712
 SC Environmental 98030
 FL NELAP E87848

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.



Charlotte Certification IDs
 NC Wastewater 12
 NC Drinking Water 37706
 SC 98006
 FL NELAP E87827



Pace Analytical Services, Inc.
 9600 Kincey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

Lab Project Number: 9271562
 Client Project ID: 04-515

Lab Sample No: 924467905 Project Sample Number: 9271562-014 Date Collected: 07/13/04 10:15
 Client Sample ID: 078902 Matrix: Soil Date Received: 07/14/04 09:45

Parameters	Results	Units	Report Limit	DF	Analysed	By	CAS No.	Qual	RegInt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	17.5	%			1.0	07/15/04 10:47	TSE		

GC/MS Semivolatiles

Parameters	Results	Units	Report Limit	DF	Analysed	By	CAS No.	Qual	RegInt
Prep/Method: EPA 3545 / EPA 8270									
Semivolatile Organics	ND	ug/kg	400		1.2	07/19/04 17:01	BET	207-08-9	
Benzo (k) fluoranthene	ND	ug/kg	400		1.2	07/19/04 17:01	BET	205-99-2	
Benzo (b) fluoranthene	ND	ug/kg	400		1.2	07/19/04 17:01	BET	56-55-3	
Benzo (a) anthracene	ND	ug/kg	400		1.2	07/19/04 17:01	BET	218-01-9	
Chrysene	ND	ug/kg	400		1.2	07/19/04 17:01	BET	53-70-3	
Dibenz(a,h)anthracene	22	%			1.0	07/19/04 17:01	BET	4165-60-0	
Nitrobenzene-d5 (S)	25	%			1.0	07/19/04 17:01	BET	321-60-8	
2-Fluorobiphenyl (S)	62	%			1.0	07/19/04 17:01	BET	1718-51-0	
Terphenyl-d14 (S)									
Date Extracted	07/18/04					07/18/04			

GC/MS Volatiles

Parameters	Results	Units	Report Limit	DF	Analysed	By	CAS No.	Qual	RegInt
GC/MS VOCs 5035/8260 low level Method: EPA 8260									
Benzene	ND	ug/kg	2.9		0.6	07/21/04 13:05	MSF	71-43-2	
Ethylbenzene	58.	ug/kg	2.9		0.6	07/21/04 13:05	MSF	100-41-4	1
Naphthalene	450	ug/kg	2.9		0.6	07/21/04 13:05	MSF	91-20-3	1,2
Toluene	ND	ug/kg	2.9		0.6	07/21/04 13:05	MSF	108-88-3	
m,p-Xylene	18.	ug/kg	5.8		0.6	07/21/04 13:05	MSF		1
o-Xylene	3.5	ug/kg	2.9		0.6	07/21/04 13:05	MSF	95-47-6	1
Toluene-d8 (S)	89	%			1.0	07/21/04 13:05	MSF	2037-26-5	
4-Bromofluorobenzene (S)	86	%			1.0	07/21/04 13:05	MSF	460-00-4	
Dibromofluoromethane (S)	115	%			1.0	07/21/04 13:05	MSF	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%			1.0	07/21/04 13:05	MSF	17060-07-0	

Date: 07/22/04

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Asheville Certification IDs
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 SC 89006
 FL NELAP E87827



Pace Analytical Services, Inc.
 9800 Kincsey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

Lab Project Number: 9271562
 Client Project ID: 04-515

Lab Sample No: 924467913 Project Sample Number: 9271562-015 Date Collected: 07/13/04 10:45
 Client Sample ID: 078B03 Matrix: Soil Date Received: 07/14/04 09:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	Req/Lmt
Wet Chemistry									
Percent Moisture	Method: % Moisture				1.0	07/15/04 10:47	TSE		
Percent Moisture	17.2	%							
GC/MS Semivolatiles									
Semivolatile Organics	Prep/Method: EPA 3545 / EPA 8270								
Benzo(k)fluoranthene	ND	ug/kg	400		1.2	07/19/04 17:40	BET 207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	400		1.2	07/19/04 17:40	BET 205-99-2		
Benzo(a)anthracene	ND	ug/kg	400		1.2	07/19/04 17:40	BET 56-55-3		
Chrysene	ND	ug/kg	400		1.2	07/19/04 17:40	BET 218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	400		1.2	07/19/04 17:40	BET 53-70-3		
Nitrobenzene-d5 (S)	16	%			1.0	07/19/04 17:40	BET 4165-60-0		
2-Fluorobiphenyl (S)	25	%			1.0	07/19/04 17:40	BET 321-60-8		
Terphenyl-d14 (S)	58	%			1.0	07/19/04 17:40	BET 1718-51-0		
Date Extracted	07/18/04					07/18/04			
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Benzene	ND	ug/kg	3.6		0.7	07/20/04 19:47	MSF 71-43-2		
Ethylbenzene	ND	ug/kg	3.6		0.7	07/20/04 19:47	MSF 100-41-4		
Naphthalene	9.1	ug/kg	3.6		0.7	07/20/04 19:47	MSF 91-20-3		1
Toluene	ND	ug/kg	3.6		0.7	07/20/04 19:47	MSF 108-88-3		
m,p-Xylene	ND	ug/kg	7.1		0.7	07/20/04 19:47	MSF		
o-Xylene	ND	ug/kg	3.6		0.7	07/20/04 19:47	MSF 95-47-6		
Toluene-d8 (S)	95	%			1.0	07/20/04 19:47	MSF 2037-26-5		
4-Bromofluorobenzene (S)	91	%			1.0	07/20/04 19:47	MSF 460-00-4		
Dibromofluoromethane (S)	102	%			1.0	07/20/04 19:47	MSF 1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%			1.0	07/20/04 19:47	MSF 17060-07-0		

Date: 07/22/04

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Pace Analytical Services, Inc.
 9800 Kincsey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

Lab Project Number: 9271562
 Client Project ID: 04-515

Lab Sample No: 924467921 Project Sample Number: 9271562-016 Date Collected: 07/13/04 11:15
 Client Sample ID: 078B04 Matrix: Soil Date Received: 07/14/04 09:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	Req/Lmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	20.0	%			1.0 07/15/04 10:47	TSE			
GC/MS Semivolatiles									
Semivolatiles Organics Prep/Method: EPA 3545 / EPA 8270									
Benzo(k) fluoranthene	ND	ug/kg	410		1.2 07/19/04 18:19	BET	207-08-9		
Benzo(b) fluoranthene	ND	ug/kg	410		1.2 07/19/04 18:19	BET	205-99-2		
Benzo(a)anthracene	ND	ug/kg	410		1.2 07/19/04 18:19	BET	56-55-3		
Chrysene	ND	ug/kg	410		1.2 07/19/04 18:19	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	410		1.2 07/19/04 18:19	BET	53-70-3		
Nitrobenzene-d5 (S)	33	%			1.0 07/19/04 18:19	BET	4165-60-0		
2-Fluorobiphenyl (S)	33	%			1.0 07/19/04 18:19	BET	321-60-8		
Terphenyl-d14 (S)	62	%			1.0 07/19/04 18:19	BET	1718-51-0		
Date Extracted	07/18/04				07/18/04				
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level Method: EPA 8260									
Benzene	ND	ug/kg	2.5		0.5 07/20/04 20:04	MSF	71-43-2		
Ethylbenzene	ND	ug/kg	2.5		0.5 07/20/04 20:04	MSF	100-41-4		
Naphthalene	ND	ug/kg	2.5		0.5 07/20/04 20:04	MSF	91-20-3		
Toluene	ND	ug/kg	2.5		0.5 07/20/04 20:04	MSF	108-88-3		
m,p-Xylene	ND	ug/kg	5.1		0.5 07/20/04 20:04	MSF			
o-Xylene	ND	ug/kg	2.5		0.5 07/20/04 20:04	MSF	95-47-6		
Toluene-d8 (S)	94	%			1.0 07/20/04 20:04	MSF	2037-26-5		
4-Bromofluorobenzene (S)	102	%			1.0 07/20/04 20:04	MSF	460-00-4		
Dibromofluoromethane (S)	94	%			1.0 07/20/04 20:04	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%			1.0 07/20/04 20:04	MSF	17060-07-0		

Date: 07/22/04

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 9800 Kincey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

Lab Project Number: 9271562
 Client Project ID: 04-515

Lab Sample No: 924467939 Project Sample Number: 9271562-017 Date Collected: 07/13/04 11:30
 Client Sample ID: 07HB05 Matrix: Soil Date Received: 07/14/04 09:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	Req/Lmt
Wet Chemistry									
Percent Moisture	Method: % Moisture				1.0	07/15/04 10:48	TSE		
Percent Moisture	15.7	%							
GC/MS Semivolatiles									
Semivolatile Organics	Prep/Method: EPA 3545 / EPA 8270								
Benzo(k)fluoranthene	ND	ug/kg	390		1.2	07/19/04 18:57	BET 207-08-9		
Benzo(b)fluoranthene	ND	ug/kg	390		1.2	07/19/04 18:57	BET 205-99-2		
Benzo(a)anthracene	ND	ug/kg	390		1.2	07/19/04 18:57	BET 56-55-3		
Chrysene	ND	ug/kg	390		1.2	07/19/04 18:57	BET 218-01-9		
Dibenz(a,h)anthracene	ND	ug/kg	390		1.2	07/19/04 18:57	BET 53-70-3		
Nitrobenzene-d5 (S)	29	%			1.0	07/19/04 18:57	BET 4165-60-0		
2-Fluorobiphenyl (S)	31	%			1.0	07/19/04 18:57	BET 321-60-8		
Terphenyl-d14 (S)	66	%			1.0	07/19/04 18:57	BET 1718-51-0		
Date Extracted	07/18/04					07/18/04			
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level	Method: EPA 8260								
Benzene	ND	ug/kg	3.2		0.6	07/21/04 13:40	MSF 71-43-2		
Ethylbenzene	ND	ug/kg	3.2		0.6	07/21/04 13:40	MSF 100-41-4		
Naphthalene	ND	ug/kg	3.2		0.6	07/21/04 13:40	MSF 91-20-3		
Toluene	ND	ug/kg	3.2		0.6	07/21/04 13:40	MSF 108-88-3		
m,p-Xylene	ND	ug/kg	6.3		0.6	07/21/04 13:40	MSF 95-47-6		
o-Xylene	ND	ug/kg	3.2		0.6	07/21/04 13:40	MSF 2037-26-5		
Toluene-d8 (S)	95	%			1.0	07/21/04 13:40	MSF 460-00-4		
4-Bromofluorobenzene (S)	104	%			1.0	07/21/04 13:40	MSF 1868-53-7		
Dibromofluoromethane (S)	94	%			1.0	07/21/04 13:40	MSF 17060-07-0		
1,2-Dichloroethane-d4 (S)	95	%							

Date: 07/23/04

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Pace Analytical Services, Inc.
 9800 Kinsey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

Lab Project Number: 9271562
 Client Project ID: 04-515

Lab Sample No: 924467954 Project Sample Number: 9271562-018 Date Collected: 07/13/04 11:45
 Client Sample ID: 078806 Matrix: Soil Date Received: 07/14/04 09:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	Req/Lmt
Wet Chemistry									
Percent Moisture	Method: % Moisture								
Percent Moisture	12.1	%			1.0	07/15/04 10:48	TSE		
GC/MS Semivolatiles									
Semivolatile Organics		Prep/Method: EPA 3545 / EPA 8270							
Benzo(k)fluoranthene	ND	ug/kg	380		1.1	07/19/04 19:35	BET	207-08-9	
Benzo(b)fluoranthene	ND	ug/kg	380		1.1	07/19/04 19:35	BET	205-99-2	
Benzo(a)anthracene	ND	ug/kg	380		1.1	07/19/04 19:35	BET	56-55-3	
Chrysene	ND	ug/kg	380		1.1	07/19/04 19:35	BET	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	380		1.1	07/19/04 19:35	BET	53-70-3	
Nitrobenzene-d5 (S)	26	%			1.0	07/19/04 19:35	BET	4165-60-0	
2-Fluorobiphenyl (S)	27	%			1.0	07/19/04 19:35	BET	321-60-8	
Terphenyl-d14 (S)	58	%			1.0	07/19/04 19:35	BET	1718-51-0	
Date Extracted	07/18/04					07/18/04			
GC/MS Volatiles									
GC/MS VOCs 5035/8260 low level		Method: EPA 8260							
Benzene	ND	ug/kg	2.3		0.5	07/20/04 20:39	MSF	71-43-2	
Ethylbenzene	ND	ug/kg	2.3		0.5	07/20/04 20:39	MSF	100-41-4	
Naphthalene	ND	ug/kg	2.3		0.5	07/20/04 20:39	MSF	91-20-3	
Toluene	ND	ug/kg	2.3		0.5	07/20/04 20:39	MSF	108-88-3	
m,p-Xylene	ND	ug/kg	4.7		0.5	07/20/04 20:39	MSF		
o-Xylene	ND	ug/kg	2.3		0.5	07/20/04 20:39	MSF	95-47-6	
Toluene-d8 (S)	95	%			1.0	07/20/04 20:39	MSF	2037-26-5	
4-Bromofluorobenzene (S)	99	%			1.0	07/20/04 20:39	MSF	460-00-4	
Dibromofluoromethane (S)	100	%			1.0	07/20/04 20:39	MSF	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%			1.0	07/20/04 20:39	MSF	17060-07-0	

Date: 07/22/04

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

558276

To Be Completed by Pace Analytical and Client Section C

Page: 1 of 1

Required Client Information: Section B

Required Client Information: Section A

Company: **ADVENT ENV.**
 Address: **498 Wando Pk Blvd**
Suite 500
Wk. Pleasant St
843 3881851 Fax: **3881891**

Report To: **Brian Crawford**
 Invoice To:
 P.O. **04-515-40**
 Project Name: **MCAS-LB**
 Project Number: **04-515-40**

Client Information (Check quote/contract):
 Requested Due Date: *TAT:
 * Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
 Turn Around Time (TAT) in calendar days.

Project Manager: **9275329**
 Project #: **1534**
 Profile #:
 Requested Analytic:

LINE #	SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATERIAL CODE WATER WT SOIL SL OIL OL WIPE WP AIR AR TISSUE TS OTHER OT	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	Containers #	Preservatives					Remarks / Lab ID	
						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH		Na ₂ S ₂ O ₈
1	096W001		08/26	1130	6							929USSD15 Grab
2	076W001		08/26	1045	6							929USSD15 Grab

Sample Condition: **3-8**
 Temp in °C: **3-8**
 Received on ICE: **Y / N**
 sealed Cooler: **Y / N**
 Yes Intact: **Y / N**

Date: **8/29** Time: **4:50**
 Relinquished By / Company: **A.V. White**
 Accepted By / Company:

Comments:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **BRIAN B. CRAWFORD**
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: (MM/DD/YY) **8/28/04**



Pace Analytical Services, Inc.
9800 Kinsey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

September 07, 2004

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

RE: Lab Project Number: 9275329
Client Project ID: MCAS-LB 04-515-40

Dear Mr. Crawford:

Enclosed are the analytical results for sample(s) received by the laboratory on August 31, 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

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

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Pace Analytical Services, Inc.
 9800 Kinsey Avenue, Suite 100
 Huntersville, NC 28078
 Phone: 704.875.9092
 Fax: 704.875.9091

Lab Project Number: 9275329
 Client Project ID: MCAS-LB 04-515-40

Lab Sample No: 924655723 Project Sample Number: 9275329-002 Date Collected: 08/26/04 10:45
 Client Sample ID: 07GW001 Matrix: Water Date Received: 08/31/04 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Semivolatiles									
Semivolatile Organics Prep/Method: EPA 3510 / EPA 8270									
Benzo(k)fluoranthene	ND	ug/l	2500	250	09/02/04 18:32	BET	207-08-9		
Benzo(b)fluoranthene	ND	ug/l	2500	250	09/02/04 18:32	BET	205-99-2		
Benzo(a)anthracene	ND	ug/l	2500	250	09/02/04 18:32	BET	56-55-3		
Chrysene	ND	ug/l	2500	250	09/02/04 18:32	BET	218-01-9		
Dibenz(a,h)anthracene	ND	ug/l	2500	250	09/02/04 18:32	BET	53-70-3		
Nitrobenzene-d5 (S)	0	%		1.0	09/02/04 18:32	BET	4165-60-0		2,3,4
2-Fluorobiphenyl (S)	0	%		1.0	09/02/04 18:32	BET	321-60-8		2,3,4
Terphenyl-d14 (S)	0	%		1.0	09/02/04 18:32	BET	1718-51-0		2,3,4
Date Extracted	08/31/04				08/31/04				

GC/MS Volatiles									
GC/MS VOCs by 8260, low level Method: EPA 8260									
Benzene	ND	ug/l	100	100	09/01/04 11:51	BCK	71-43-2		
Ethylbenzene	470	ug/l	100	100	09/01/04 11:51	BCK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	100	100	09/01/04 11:51	BCK	1634-04-4		
Naphthalene	3700	ug/l	100	100	09/01/04 11:51	BCK	91-20-3		
Toluene	760	ug/l	100	100	09/01/04 11:51	BCK	108-88-3		
m&p-Xylene	1900	ug/l	200	100	09/01/04 11:51	BCK			
o-Xylene	900	ug/l	100	100	09/01/04 11:51	BCK	95-47-6		
Toluene-d8 (S)	100	%		1.0	09/01/04 11:51	BCK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		1.0	09/01/04 11:51	BCK	460-00-4		
Dibromofluoromethane (S)	104	%		1.0	09/01/04 11:51	BCK	1868-53-7		1
1,2-Dichloroethane-d4 (S)	98	%		1.0	09/01/04 11:51	BCK	17060-07-0		

Date: 09/07/04

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9275329
Client Project ID: MCAS-LB 04-515-40

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 sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
[2] Surrogate standards were not recovered due to sample dilution.
[3] The sample extract could not be concentrated to the normal final volume. This resulted in an elevated reporting limit.
[4] The sample was diluted to reduce matrix interference, resulting in elevated reporting limits.

Date: 09/07/04

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QUALITY CONTROL DATA

Lab Project Number: 9275329
Client Project ID: MCAS-LB 04-515-40

QC Batch: 108639 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: Semivolatile Organics
Associated Lab Samples: 924655715 924655723

METHOD BLANK: 924656838
Associated Lab Samples: 924655715 924655723

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Benzo(k)fluoranthene	ug/l	ND	10.	
Benzo(b)fluoranthene	ug/l	ND	10.	
Benzo(a)anthracene	ug/l	ND	10.	
Chrysene	ug/l	ND	10.	
Dibenz(a,h)anthracene	ug/l	ND	10.	
Nitrobenzene-d5 (S)	%	72		
2-Fluorobiphenyl (S)	%	71		
Terphenyl-d14 (S)	%	101		

LABORATORY CONTROL SAMPLE & LCSD: 924656903 924656911

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	RPD	Footnotes
		Conc.	Result	Result	% Rec	% Rec		
Benzo(k)fluoranthene	ug/l	50.00	43.80	48.03	88	96	9	
Benzo(b)fluoranthene	ug/l	50.00	43.74	42.81	88	86	2	
Benzo(a)anthracene	ug/l	50.00	39.05	39.68	78	79	2	
Chrysene	ug/l	50.00	39.54	39.92	79	80	1	
Dibenz(a,h)anthracene	ug/l	50.00	27.83	27.03	56	54	3	
Nitrobenzene-d5 (S)					78	76		
2-Fluorobiphenyl (S)					85	84		
Terphenyl-d14 (S)					96	99		

Date: 09/07/04

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QUALITY CONTROL DATA

Lab Project Number: 9275329
Client Project ID: MCAS-LB 04-515-40

QC Batch: 108728 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260, low level
Associated Lab Samples: 924655715 924655723

METHOD BLANK: 924660160
Associated Lab Samples: 924655715 924655723

Table with 5 columns: Parameter, Units, Blank Result, Reporting Limit, Footnotes. Rows include Benzene, Ethylbenzene, Methyl-tert-butyl ether, Naphthalene, Toluene, m&p-Xylene, o-Xylene, Toluene-d8 (S), 4-Bromofluorobenzene (S), Dibromofluoromethane (S), 1,2-Dichloroethane-d4 (S).

LABORATORY CONTROL SAMPLE: 924660178

Table with 6 columns: Parameter, Units, Spike Conc., LCS Result, LCS % Rec, Footnotes. Rows include Benzene, Ethylbenzene, Methyl-tert-butyl ether, Naphthalene, Toluene, m&p-Xylene, o-Xylene, Toluene-d8 (S), 4-Bromofluorobenzene (S), Dibromofluoromethane (S), 1,2-Dichloroethane-d4 (S).

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Lab Project Number: 9275329
Client Project ID: MCAS-LB 04-515-40

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

Date: 09/07/04

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Appendix C
Laboratory Analytical Reports – Soil – Tier 2 Assessment



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Pace Analytical Services, Inc.
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 Phone: 828.254.7176
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Lab Project Number: 9294935
 Client Project ID: LaurelBay Tier-II/05-504

Solid results are reported on a dry weight basis

Lab Sample No: 925659682 Project Sample Number: 9294935-001 Date Collected: 05/20/05 14:55
 Client Sample ID: 010SB10 Matrix: Soil Date Received: 05/21/05 09:10

Parameters Results Units Report Limit Analyzed By CAS No. Qual ReqLmt

Wet Chemistry

Percent Moisture Method: % Moisture
 Percent Moisture 14.3 % 05/23/05 09:07 TNS

GC/MS Semivolatiles

Semivolatile Organics Prep/Method: EPA 3545 / EPA 8270
 Acenaphthene ND ug/kg 380 05/28/05 17:16 BET 83-32-9
 Acenaphthylene ND ug/kg 380 05/28/05 17:16 BET 208-96-8
 Anthracene ND ug/kg 380 05/28/05 17:16 BET 120-12-7
 Benzo (a) anthracene ND ug/kg 380 05/28/05 17:16 BET 56-55-3
 Benzo (a) pyrene ND ug/kg 380 05/28/05 17:16 BET 50-32-8
 Benzo (b) fluoranthene ND ug/kg 380 05/28/05 17:16 BET 205-99-2
 Benzo (g,h,i) perylene ND ug/kg 380 05/28/05 17:16 BET 191-24-2
 Benzo (k) fluoranthene ND ug/kg 380 05/28/05 17:16 BET 207-08-9
 Chrysene ND ug/kg 380 05/28/05 17:16 BET 218-01-9
 Dibenz (a,h) anthracene ND ug/kg 380 05/28/05 17:16 BET 53-70-3
 Fluoranthene ND ug/kg 380 05/28/05 17:16 BET 206-44-0
 Fluorene ND ug/kg 380 05/28/05 17:16 BET 86-73-7
 Indeno (1,2,3-cd) pyrene ND ug/kg 380 05/28/05 17:16 BET 193-39-5
 Naphthalene ND ug/kg 380 05/28/05 17:16 BET 91-20-3
 Phenanthrene ND ug/kg 380 05/28/05 17:16 BET 85-01-8
 Pyrene ND ug/kg 380 05/28/05 17:16 BET 129-00-0
 Nitrobenzene-d5 (S) 38 % 05/28/05 17:16 BET 4165-60-0
 2-Fluorobiphenyl (S) 36 % 05/28/05 17:16 BET 321-60-8
 Terphenyl-d14 (S) 58 % 05/28/05 17:16 BET 1718-51-0
 Date Extracted 05/26/05 05/26/05

GC Semivolatiles

TPH in Soil by 3545/8015 Prep/Method: EPA 3545 / EPA 8015
 Diesel Fuel ND mg/kg 5.8 05/27/05 20:13 KBS 68334-30-5
 n-Pentacosane (S) 69 % 05/27/05 20:13 KBS 629-99-2
 Date Extracted 05/25/05 05/25/05

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level Method: EPA 8260
 Benzene ND ug/kg 2.9 05/27/05 04:44 RWS 71-43-2
 Ethylbenzene ND ug/kg 2.9 05/27/05 04:44 RWS 100-41-4
 Naphthalene ND ug/kg 2.9 05/27/05 04:44 RWS 91-20-3

Date: 06/07/05

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 Fax: 828.252.4618

Lab Project Number: 9294935
 Client Project ID: LaurelBay Tier-II/05-504

Lab Sample No: 925659682 Project Sample Number: 9294935-001 Date Collected: 05/20/05 14:55
 Client Sample ID: 010SB10 Matrix: Soil Date Received: 05/21/05 09:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Toluene	ND	ug/kg	2.9	05/27/05 04:44	RWS	108-88-3		
m&p-Xylene	ND	ug/kg	5.8	05/27/05 04:44	RWS			
o-Xylene	ND	ug/kg	2.9	05/27/05 04:44	RWS	95-47-6		
Toluene-d8 (S)	99	%		05/27/05 04:44	RWS	2037-26-5		
4-Bromofluorobenzene (S)	93	%		05/27/05 04:44	RWS	460-00-4		
Dibromofluoromethane (S)	89	%		05/27/05 04:44	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	82	%		05/27/05 04:44	RWS	17060-07-0		

Date: 06/07/05

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Lab Project Number: 9294935
 Client Project ID: LaurelBay Tier-II/05-504

Lab Sample No: 925659690 Project Sample Number: 9294935-002 Date Collected: 05/20/05 14:55
 Client Sample ID: 010SB11 Matrix: Soil Date Received: 05/21/05 09:10

Parameters Results Units Report Limit Analyzed By CAS No. Qual RegLmt

Wet Chemistry

Percent Moisture Method: % Moisture
 Percent Moisture 16.4 % 05/23/05 09:08 TNS

GC/MS Semivolatiles

Semivolatile Organics Prep/Method: EPA 3545 / EPA 8270

Acenaphthene	ND	ug/kg	390	05/28/05 17:51 BET	83-32-9
Acenaphthylene	ND	ug/kg	390	05/28/05 17:51 BET	208-96-8
Anthracene	ND	ug/kg	390	05/28/05 17:51 BET	120-12-7
Benzo (a) anthracene	ND	ug/kg	390	05/28/05 17:51 BET	56-55-3
Benzo (a) pyrene	ND	ug/kg	390	05/28/05 17:51 BET	50-32-8
Benzo (b) fluoranthene	ND	ug/kg	390	05/28/05 17:51 BET	205-99-2
Benzo (g, h, i) perylene	ND	ug/kg	390	05/28/05 17:51 BET	191-24-2
Benzo (k) fluoranthene	ND	ug/kg	390	05/28/05 17:51 BET	207-08-9
Chrysene	ND	ug/kg	390	05/28/05 17:51 BET	218-01-9
Dibenz (a, h) anthracene	ND	ug/kg	390	05/28/05 17:51 BET	53-70-3
Fluoranthene	ND	ug/kg	390	05/28/05 17:51 BET	206-44-0
Fluorene	ND	ug/kg	390	05/28/05 17:51 BET	86-73-7
Indeno (1, 2, 3-cd) pyrene	ND	ug/kg	390	05/28/05 17:51 BET	193-39-5
Naphthalene	ND	ug/kg	390	05/28/05 17:51 BET	91-20-3
Phenanthrene	ND	ug/kg	390	05/28/05 17:51 BET	85-01-8
Pyrene	ND	ug/kg	390	05/28/05 17:51 BET	129-00-0
Nitrobenzene-d5 (S)	59	%		05/28/05 17:51 BET	4165-60-0
2-Fluorobiphenyl (S)	49	%		05/28/05 17:51 BET	321-60-8
Terphenyl-d14 (S)	65	%		05/28/05 17:51 BET	1718-51-0
Date Extracted	05/26/05			05/26/05	

GC Semivolatiles

TPH in Soil by 3545/8015 Prep/Method: EPA 3545 / EPA 8015

Diesel Fuel	ND	mg/kg	6.0	05/27/05 20:43 KBS	68334-30-5
n-Pentacosane (S)	68	%		05/27/05 20:43 KBS	629-99-2
Date Extracted	05/25/05			05/25/05	

GC/MS Volatiles

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

Benzene	ND	ug/kg	2.8	05/27/05 05:01 RWS	71-43-2
Ethylbenzene	ND	ug/kg	2.8	05/27/05 05:01 RWS	100-41-4
Naphthalene	ND	ug/kg	2.8	05/27/05 05:01 RWS	91-20-3
Toluene	ND	ug/kg	2.8	05/27/05 05:01 RWS	108-88-3

Date: 06/07/05

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Lab Project Number: 9294935
 Client Project ID: LaurelBay Tier-II/05-504

Lab Sample No: 925659690 Project Sample Number: 9294935-002 Date Collected: 05/20/05 14:55
 Client Sample ID: 010SB11 Matrix: Soil Date Received: 05/21/05 09:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
m&p-Xylene	ND	ug/kg	5.7	05/27/05 05:01	RWS			
o-Xylene	ND	ug/kg	2.8	05/27/05 05:01	RWS	95-47-6		
Toluene-d8 (S)	99	%		05/27/05 05:01	RWS	2037-26-5		
4-Bromofluorobenzene (S)	94	%		05/27/05 05:01	RWS	460-00-4		
Dibromofluoromethane (S)	91	%		05/27/05 05:01	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	89	%		05/27/05 05:01	RWS	17060-07-0		

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Lab Project Number: 9294935
 Client Project ID: LaurelBay Tier-II/05-504

Lab Sample No: 925659708 Project Sample Number: 9294935-003 Date Collected: 05/20/05 14:55
 Client Sample ID: 010SB12 Matrix: Soil Date Received: 05/21/05 09:10

Parameters Results Units Report Limit Analyzed By CAS No. Qual RegLmt

Wet Chemistry

Percent Moisture Method: % Moisture
 Percent Moisture 16.7 % 05/23/05 09:27 TNS

GC/MS Semivolatiles

Semivolatile Organics Prep/Method: EPA 3545 / EPA 8270
 Acenaphthene ND ug/kg 400 05/28/05 18:25 BET 83-32-9
 Acenaphthylene ND ug/kg 400 05/28/05 18:25 BET 208-96-8
 Anthracene ND ug/kg 400 05/28/05 18:25 BET 120-12-7
 Benzo (a) anthracene ND ug/kg 400 05/28/05 18:25 BET 56-55-3
 Benzo (a) pyrene ND ug/kg 400 05/28/05 18:25 BET 50-32-8
 Benzo (b) fluoranthene ND ug/kg 400 05/28/05 18:25 BET 205-99-2
 Benzo (g, h, i) perylene ND ug/kg 400 05/28/05 18:25 BET 191-24-2
 Benzo (k) fluoranthene ND ug/kg 400 05/28/05 18:25 BET 207-08-9
 Chrysene ND ug/kg 400 05/28/05 18:25 BET 218-01-9
 Dibenz (a, h) anthracene ND ug/kg 400 05/28/05 18:25 BET 53-70-3
 Fluoranthene ND ug/kg 400 05/28/05 18:25 BET 206-44-0
 Fluorene ND ug/kg 400 05/28/05 18:25 BET 86-73-7
 Indeno (1, 2, 3-cd) pyrene ND ug/kg 400 05/28/05 18:25 BET 193-39-5
 Naphthalene ND ug/kg 400 05/28/05 18:25 BET 91-20-3
 Phenanthrene ND ug/kg 400 05/28/05 18:25 BET 85-01-8
 Pyrene ND ug/kg 400 05/28/05 18:25 BET 129-00-0
 Nitrobenzene-d5 (S) 70 % 05/28/05 18:25 BET 4165-60-0
 2-Fluorobiphenyl (S) 59 % 05/28/05 18:25 BET 321-60-8
 Terphenyl-d14 (S) 70 % 05/28/05 18:25 BET 1718-51-0
 Date Extracted 05/26/05 05/26/05

GC Semivolatiles

TPH in Soil by 3545/8015 Prep/Method: EPA 3545 / EPA 8015
 Diesel Fuel 2000 mg/kg 120 05/31/05 14:30 KBS 68334-30-5
 n-Pentacosane (S) 0 % 05/31/05 14:30 KBS 629-99-2 1
 Date Extracted 05/25/05 05/25/05

GC/MS Volatiles

GC/MS VOCs 5035/8260 low level Method: EPA 8260
 Benzene ND ug/kg 2.3 05/27/05 05:35 RWS 71-43-2
 Ethylbenzene ND ug/kg 2.3 05/27/05 05:35 RWS 100-41-4
 Naphthalene ND ug/kg 2.3 05/27/05 05:35 RWS 91-20-3
 Toluene ND ug/kg 2.3 05/27/05 05:35 RWS 108-88-3

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Lab Project Number: 9294935
 Client Project ID: LaurelBay Tier-II/05-504

Lab Sample No: 925659708 Project Sample Number: 9294935-003 Date Collected: 05/20/05 14:55
 Client Sample ID: 010SB12 Matrix: Soil Date Received: 05/21/05 09:10

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
m&p-Xylene	ND	ug/kg	4.7	05/27/05 05:35	RWS			
o-Xylene	ND	ug/kg	2.3	05/27/05 05:35	RWS	95-47-6		
Toluene-d8 (S)	97	%		05/27/05 05:35	RWS	2037-26-5		
4-Bromofluorobenzene (S)	88	%		05/27/05 05:35	RWS	460-00-4		
Dibromofluoromethane (S)	83	%		05/27/05 05:35	RWS	1868-53-7		
1,2-Dichloroethane-d4 (S)	69	%		05/27/05 05:35	RWS	17060-07-0		

Date: 06/07/05

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Appendix D
Laboratory Analytical Reports – Groundwater – Tier 2 Assessment



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Lab Project Number: 9295080
 Client Project ID: Laural Bay/05-504

Lab Sample No: 925669764 Project Sample Number: 9295080-002 Date Collected: 05/23/05 09:40
 Client Sample ID: 10TMW10 Matrix: Water Date Received: 05/24/05 09:15

Parameters Results Units Report Limit Analyzed By CAS No. Qual RegLmt

Metals

Dissolved Metals, Trace ICP Prep/Method: EPA 3010 / EPA 6010
 Lead, Dissolved ND mg/l 0.0050 06/03/05 03:06 ARH 7439-92-1
 Date Digested 05/27/05 12:00 05/27/05 12:00

Wet Chemistry

Iron, Ferrous Method: SM 3500-Fe D#4
 Iron, Ferrous 1.0 mg/l 0.50 05/25/05 03:10 BMF 1
 48 Hour NO3 / NO2 / NOX Method: EPA 353.2
 Nitrate as N ND mg/l 0.10 05/24/05 22:38 JDA1
 Oxygen, Dissolved Method: EPA 360.1
 Oxygen, Dissolved 8.0 mg/l 1.0 05/31/05 11:00 TMR 7782-44-7 1

GC/MS Semivolatiles

Semivolatile Organics Prep/Method: EPA 3510 / EPA 8270
 Acenaphthene ND ug/l 10. 05/31/05 21:30 BET 83-32-9
 Acenaphthylene ND ug/l 10. 05/31/05 21:30 BET 208-96-8
 Anthracene ND ug/l 10. 05/31/05 21:30 BET 120-12-7
 Benzo (a) anthracene ND ug/l 10. 05/31/05 21:30 BET 56-55-3
 Benzo (a) pyrene ND ug/l 10. 05/31/05 21:30 BET 50-32-8
 Benzo (b) fluoranthene ND ug/l 10. 05/31/05 21:30 BET 205-99-2
 Benzo (g,h,i) perylene ND ug/l 10. 05/31/05 21:30 BET 191-24-2
 Benzo (k) fluoranthene ND ug/l 10. 05/31/05 21:30 BET 207-08-9
 Chrysene ND ug/l 10. 05/31/05 21:30 BET 218-01-9
 Dibenz (a,h) anthracene ND ug/l 10. 05/31/05 21:30 BET 53-70-3
 Fluoranthene ND ug/l 10. 05/31/05 21:30 BET 206-44-0
 Fluorene ND ug/l 10. 05/31/05 21:30 BET 86-73-7
 Indeno (1,2,3-cd) pyrene ND ug/l 10. 05/31/05 21:30 BET 193-39-5
 Naphthalene ND ug/l 10. 05/31/05 21:30 BET 91-20-3
 Phenanthrene ND ug/l 10. 05/31/05 21:30 BET 85-01-8
 Pyrene ND ug/l 10. 05/31/05 21:30 BET 129-00-0
 Nitrobenzene-d5 (S) 39 % 05/31/05 21:30 BET 4165-60-0
 2-Fluorobiphenyl (S) 22 % 05/31/05 21:30 BET 321-60-8 2
 Terphenyl-d14 (S) 21 % 05/31/05 21:30 BET 1718-51-0
 Date Extracted 05/31/05 05/31/05

Date: 06/13/05

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Lab Project Number: 9295080
 Client Project ID: Laural Bay/05-504

Lab Sample No: 925669764 Project Sample Number: 9295080-002 Date Collected: 05/23/05 09:40
 Client Sample ID: 10TMW10 Matrix: Water Date Received: 05/24/05 09:15

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
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GC Semivolatiles

EDB and DBCP in Water		Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/l	0.020	05/25/05 22:32	JEM	106-93-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	0.050	05/25/05 22:32	JEM	96-12-8		
1,2,3-Trichloropropane	ND	ug/l	0.050	05/25/05 22:32	JEM	96-18-4		
1-Chloro-2-bromopropane (S)	105	%		05/25/05 22:32	JEM	301-79-56		

GC/MS Volatiles

GC/MS VOCs by 8260, low level		Method: EPA 8260						
Benzene	ND	ug/l	1.0	05/28/05 11:31	MSF	71-43-2		
Ethylbenzene	ND	ug/l	1.0	05/28/05 11:31	MSF	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	1.0	05/28/05 11:31	MSF	1634-04-4		
Naphthalene	ND	ug/l	1.0	05/28/05 11:31	MSF	91-20-3		
Toluene	ND	ug/l	1.0	05/28/05 11:31	MSF	108-88-3		
m&p-Xylene	ND	ug/l	2.0	05/28/05 11:31	MSF			
o-Xylene	ND	ug/l	1.0	05/28/05 11:31	MSF	95-47-6		
Toluene-d8 (S)	101	%		05/28/05 11:31	MSF	2037-26-5		
4-Bromofluorobenzene (S)	91	%		05/28/05 11:31	MSF	460-00-4		
Dibromofluoromethane (S)	99	%		05/28/05 11:31	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	98	%		05/28/05 11:31	MSF	17060-07-0		

Date: 06/13/05

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 Fax: 704.875.9091

Pace Analytical Services, Inc.
 2225 Riverside Drive
 Asheville, NC 28804
 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 9295080
 Client Project ID: Laural Bay/05-504

Lab Sample No: 925669772 Project Sample Number: 9295080-003 Date Collected: 05/23/05 10:05
 Client Sample ID: 10TMW11 Matrix: Water Date Received: 05/24/05 09:15

Parameters Results Units Report Limit Analyzed By CAS No. Qual RegLmt

Metals

Dissolved Metals, Trace ICP Prep/Method: EPA 3010 / EPA 6010
 Lead, Dissolved ND mg/l 0.0050 06/03/05 03:15 ARH 7439-92-1
 Date Digested 05/27/05 12:00 05/27/05 12:00

Wet Chemistry

Iron, Ferrous Method: SM 3500-Fe D#4
 Iron, Ferrous 1.0 mg/l 0.50 05/25/05 03:10 BMF 1

48 Hour NO3 / NO2 / NOX Method: EPA 353.2
 Nitrate as N 0.15 mg/l 0.10 05/24/05 22:38 JDA1

Oxygen, Dissolved Method: EPA 360.1
 Oxygen, Dissolved 9.8 mg/l 1.0 05/31/05 11:00 TMR 7782-44-7 1

GC/MS Semivolatiles

Semivolatile Organics Prep/Method: EPA 3510 / EPA 8270
 Acenaphthene ND ug/l 10. 05/31/05 22:04 BET 83-32-9
 Acenaphthylene ND ug/l 10. 05/31/05 22:04 BET 208-96-8
 Anthracene ND ug/l 10. 05/31/05 22:04 BET 120-12-7
 Benzo (a) anthracene ND ug/l 10. 05/31/05 22:04 BET 56-55-3
 Benzo (a) pyrene ND ug/l 10. 05/31/05 22:04 BET 50-32-8
 Benzo (b) fluoranthene ND ug/l 10. 05/31/05 22:04 BET 205-99-2
 Benzo (g,h,i) perylene ND ug/l 10. 05/31/05 22:04 BET 191-24-2
 Benzo (k) fluoranthene ND ug/l 10. 05/31/05 22:04 BET 207-08-9
 Chrysene ND ug/l 10. 05/31/05 22:04 BET 218-01-9
 Dibenz (a,h) anthracene ND ug/l 10. 05/31/05 22:04 BET 53-70-3
 Fluoranthene ND ug/l 10. 05/31/05 22:04 BET 206-44-0
 Fluorene ND ug/l 10. 05/31/05 22:04 BET 86-73-7
 Indeno (1,2,3-cd) pyrene ND ug/l 10. 05/31/05 22:04 BET 193-39-5
 Naphthalene ND ug/l 10. 05/31/05 22:04 BET 91-20-3
 Phenanthrene ND ug/l 10. 05/31/05 22:04 BET 85-01-8
 Pyrene ND ug/l 10. 05/31/05 22:04 BET 129-00-0
 Nitrobenzene-d5 (S) 54 % 05/31/05 22:04 BET 4165-60-0
 2-Fluorobiphenyl (S) 36 % 05/31/05 22:04 BET 321-60-8
 Terphenyl-d14 (S) 51 % 05/31/05 22:04 BET 1718-51-0
 Date Extracted 05/31/05 05/31/05

Date: 06/13/05

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 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 9295080
 Client Project ID: Laural Bay/05-504

Lab Sample No: 925669772 Project Sample Number: 9295080-003 Date Collected: 05/23/05 10:05
 Client Sample ID: 10TMW11 Matrix: Water Date Received: 05/24/05 09:15

Parameters Results Units Report Limit Analyzed By CAS No. Qual RegLmt

GC Semivolatiles

EDB and DECP in Water		Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/l	0.020	05/27/05 15:15	JEM	106-93-4		
1,2-Dibromo-3-chloropropane	ND	ug/l	0.050	05/27/05 15:15	JEM	96-12-8		
1,2,3-Trichloropropane	ND	ug/l	0.050	05/27/05 15:15	JEM	96-18-4		
1-Chloro-2-bromopropane (S)	113	%		05/27/05 15:15	JEM	301-79-56		

GC/MS Volatiles

GC/MS VOCs by 8260, low level		Method: EPA 8260						
Benzene	ND	ug/l	1.0	05/28/05 22:49	MSF	71-43-2		
Ethylbenzene	ND	ug/l	1.0	05/28/05 22:49	MSF	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	1.0	05/28/05 22:49	MSF	1634-04-4		
Naphthalene	ND	ug/l	1.0	05/28/05 22:49	MSF	91-20-3		
Toluene	ND	ug/l	1.0	05/28/05 22:49	MSF	108-88-3		
m&p-Xylene	ND	ug/l	2.0	05/28/05 22:49	MSF			
o-Xylene	ND	ug/l	1.0	05/28/05 22:49	MSF	95-47-6		
Toluene-d8 (S)	98	%		05/28/05 22:49	MSF	2037-26-5		
4-Bromofluorobenzene (S)	92	%		05/28/05 22:49	MSF	460-00-4		
Dibromofluoromethane (S)	103	%		05/28/05 22:49	MSF	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		05/28/05 22:49	MSF	17060-07-0		

Date: 06/13/05

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Pace Analytical Services, Inc.
 2225 Riverside Drive
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 Fax: 828.252.4618

Lab Project Number: 9295080
 Client Project ID: Laural Bay/05-504

Lab Sample No: 925669780 Project Sample Number: 9295080-004 Date Collected: 05/23/05 10:30
 Client Sample ID: 10TMW12 Matrix: Water Date Received: 05/24/05 09:15

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
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Metals

Dissolved Metals, Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Lead, Dissolved	ND	mg/l	0.0050	06/03/05 03:19	ARH	7439-92-1		
Date Digested	05/27/05 12:00			05/27/05 12:00				

Wet Chemistry

Iron, Ferrous	Method: SM 3500-Fe D#4							
Iron, Ferrous	4.4	mg/l	0.50	05/25/05 03:10	BMF		1	
48 Hour NO3 / NO2 / NOX	Method: EPA 353.2							
Nitrate as N	ND	mg/l	0.10	05/24/05 22:38	JDA1			
Oxygen, Dissolved	Method: EPA 360.1							
Oxygen, Dissolved	8.2	mg/l	1.0	05/31/05 11:00	TMR	7782-44-7	1	

GC/MS Semivolatiles

Semivolatile Organics	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Prep/Method: EPA 3510 / EPA 8270								
Acenaphthene	ND	ug/l	11.	05/31/05 22:38	BET	83-32-9		
Acenaphthylene	ND	ug/l	11.	05/31/05 22:38	BET	208-96-8		
Anthracene	ND	ug/l	11.	05/31/05 22:38	BET	120-12-7		
Benzo (a) anthracene	ND	ug/l	11.	05/31/05 22:38	BET	56-55-3		
Benzo (a) pyrene	ND	ug/l	11.	05/31/05 22:38	BET	50-32-8		
Benzo (b) fluoranthene	ND	ug/l	11.	05/31/05 22:38	BET	205-99-2		
Benzo (g,h,i) perylene	ND	ug/l	11.	05/31/05 22:38	BET	191-24-2		
Benzo (k) fluoranthene	ND	ug/l	11.	05/31/05 22:38	BET	207-08-9		
Chrysene	ND	ug/l	11.	05/31/05 22:38	BET	218-01-9		
Dibenz (a,h) anthracene	ND	ug/l	11.	05/31/05 22:38	BET	53-70-3		
Fluoranthene	ND	ug/l	11.	05/31/05 22:38	BET	206-44-0		
Fluorene	ND	ug/l	11.	05/31/05 22:38	BET	86-73-7		
Indeno (1,2,3-cd) pyrene	ND	ug/l	11.	05/31/05 22:38	BET	193-39-5		
Naphthalene	ND	ug/l	11.	05/31/05 22:38	BET	91-20-3		
Phenanthrene	ND	ug/l	11.	05/31/05 22:38	BET	85-01-8		
Pyrene	ND	ug/l	11.	05/31/05 22:38	BET	129-00-0		
Nitrobenzene-d5 (S)	71	%		05/31/05 22:38	BET	4165-60-0		
2-Fluorobiphenyl (S)	60	%		05/31/05 22:38	BET	321-60-8		
Terphenyl-d14 (S)	67	%		05/31/05 22:38	BET	1718-51-0		
Date Extracted	05/31/05			05/31/05				

Date: 06/13/05

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 Phone: 828.254.7176
 Fax: 828.252.4618

Lab Project Number: 9295080
 Client Project ID: Laural Bay/05-504

Lab Sample No: 925669780 Project Sample Number: 9295080-004 Date Collected: 05/23/05 10:30
 Client Sample ID: 10TMW12 Matrix: Water Date Received: 05/24/05 09:15

Parameters Results Units Report Limit Analyzed By CAS No. Qual RegLmt

GC Semivolatiles

EDB and DBCP in Water		Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/l	0.020	05/27/05	15:36	JEM	106-93-4	
1,2-Dibromo-3-chloropropane	ND	ug/l	0.050	05/27/05	15:36	JEM	96-12-8	
1,2,3-Trichloropropane	ND	ug/l	0.050	05/27/05	15:36	JEM	96-18-4	
1-Chloro-2-bromopropane (S)	99	%		05/27/05	15:36	JEM	301-79-56	

GC/MS Volatiles

GC/MS VOCs by 8260, low level		Method: EPA 8260						
Benzene	ND	ug/l	1.0	05/29/05	02:19	MSF	71-43-2	
Ethylbenzene	1.4	ug/l	1.0	05/29/05	02:19	MSF	100-41-4	
Methyl-tert-butyl ether	6.6	ug/l	1.0	05/29/05	02:19	MSF	1634-04-4	
Naphthalene	16.	ug/l	1.0	05/29/05	02:19	MSF	91-20-3	
Toluene	ND	ug/l	1.0	05/29/05	02:19	MSF	108-88-3	
m&p-Xylene	ND	ug/l	2.0	05/29/05	02:19	MSF		
o-Xylene	ND	ug/l	1.0	05/29/05	02:19	MSF	95-47-6	
Toluene-d8 (S)	102	%		05/29/05	02:19	MSF	2037-26-5	
4-Bromofluorobenzene (S)	96	%		05/29/05	02:19	MSF	460-00-4	
Dibromofluoromethane (S)	101	%		05/29/05	02:19	MSF	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%		05/29/05	02:19	MSF	17060-07-0	

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Appendix E
Regulatory Correspondence

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C. Earl Hunter, Commissioner

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

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Coleman F. Buckhouse, MD

2 December 2004

United States Marine Corps Air Station
Attention: S-4 NREA0 (A.G. Howard)
P.O. Box 55001
Beaufort, SC 29904-5001

Re: MCAS – Laurel Bay Housing – Laurel Bay Circle Unit # 7
Site ID # 02769
Tank Closure Report received 29 November 2004
Beaufort County

Dear Ms. Howard:

The purpose of this letter is to verify a release of fuel oil at the referenced facility. According to information received by the Department, the source of the release is from past onsite use of fuel oil USTs. To date, initial activities by the facility have included tank & soil removal, soil sampling, and collection of a groundwater sample. Based on the information contained in the closure report, a violation of the South Carolina Pollution Control Act has occurred in that there has been an unauthorized release of petroleum to the environment. Further, the data indicates that a violation of the South Carolina Water Classification and Standards has occurred in that Class GB Groundwater Standards have been exceeded.

Assessment and remediation activities in the vicinity of Laurel Bay Circle Unit # 7 indicate that Naphthalene remains in soils in excess of established RBSL limits. In addition, groundwater sampling conducted in this area indicates that Naphthalene also exceeds the RBSL for groundwater. Therefore, additional assessment or remedial measures are required for Laurel Bay Circle Unit # 7.

Please submit a proposal to conduct the necessary assessment and/or remedial measures at this site no later than 29 April 2005. Should you have any questions, please contact me at 803-898-3553 (office phone), 803-898-2893 (fax) or bishopma@dhec.sc.gov.

Sincerely,

Michael Bishop, Hydrogeologist
Groundwater Quality Section
Bureau of Water

cc: Low Country District EQC
Matt Tetrault – BLWM
Mike Danielsen – BLWM
Commander NAVFACENGCOM Southern Division, Attn: Code ES24 (Gabriel Magwood), P.O. Box 190010, North
Charleston, SC 29419-9010
Technical File

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C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.
27 October 2005

BOARD:
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Paul C. Aughtry, III
Glenn A. McCall
Coleman F. Buckhouse, MD

United States Marine Corps Air Station
Attention: S-4 NREAO (A.G. Howard)
P.O. Box 55001
Beaufort, SC 29904-5001

Re: MCAS – Laurel Bay Circle #'s 10, 9, 8, 7, and 1
Site ID #'s 02696, 02770, 02771, 02769, and 02768
Tier II Assessment Report received 11 October 2005
No Further Action
Beaufort County

Dear Ms. Howard:

The Department has reviewed the referenced assessment report. As submitted, the report documents current and historical efforts to monitor soil and groundwater for hydrocarbon contamination at the subject site. Based on this review, it appears that identified contamination at this site is below established maximum contaminant levels.

Based on the information and analytical data submitted, the Department recognizes that MCAS has adequately addressed the known environmental contamination identified on the property to date in accordance with the approved scope of work. Consequently, no further investigation is required at this time. Please note, this statement pertains only to the portion of the site addressed in the referenced report and does not apply to other areas of the site and/or any other potential regulatory violations. Further, the Department retains the right to request further investigation if deemed necessary.

Should you have any questions, please contact me at 803-898-3553 (office phone), 803-898-2893 (fax) or bishopma@dhec.sc.gov.

Sincerely,

Michael A. Bishop, Hydrogeologist
Groundwater Quality Section
Bureau of Water

B. Thomas Knight, Manager
Groundwater Quality Section
Bureau of Water

cc: Region 8 District EQC
Commander NAVFACENCOM Southern Division, Attn: Code ES24 (Gabriel Magwood), P.O. Box 190010, North
Charleston, SC 29419-9010
Technical File