SUMMARY REPORT
203 ACORN DRIVE (FORMERLY 398 ACORN DRIVE)
LAUREL BAY MILITARY HOUSING AREA
MARINE CORPS AIR STATION BEAUFORT
BEAUFORT, SC

Revision: 0
Prepared for:

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

and

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

JUNE 2021

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Prepared by:

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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
LTM	long-term monitoring
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
UFP SAP	Uniform Federal Policy Sampling and Analysis Plan
USEPA	United States Environmental Protection Agency
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 203 Acorn Drive (Formerly 398 Acorn Drive). This NFA determination indicates that there are no unacceptable risks to human health or the environment for the petroleum constituents associated with the home heating oil UST. 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 heating oil USTs and conduct sampling activities to determine if, and to what extent, petroleum constituents may have impacted the surrounding environment. MCAS Beaufort coordinated with the SCDHEC to develop removal procedures that were consistent with procedural requirements for regulated USTs. All tank removal activities and follow-on actions are conducted in coordination with SCDHEC. To date, all known USTs have been removed from all residential properties within the LBMH area.

1.2 UST Removal and Assessment Process

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

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

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

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

The results of the soil sampling at each former UST location were used to determine if a potential for groundwater contamination exists (i.e., soil results greater than RBSLs) and subsequently to select properties for follow-up initial groundwater assessment (IGWA) sampling. The IGWA sampling process utilizes temporary groundwater sampling points that are typically installed and sampled within the same day. The intent of the sampling point is to determine the presence or absence of the aforementioned COPCs in groundwater and identify whether former UST locations may require additional delineation of COPCs in groundwater. These sampling points are not subjected to the same installation standards as permanent monitoring wells and, as such; the data obtained from the IGWA wells can sometimes be biased high and is considered preliminary data. In order to confirm the presence of any impact to groundwater, a permanent well is installed where IGWA sampling has indicated the presence of COPCs is in excess of the SCDHEC RBSLs for groundwater. If COPCs are found to be present in the permanent well, additional permanent wells are installed to delineate the extent of impact to groundwater and a sampling program (long-term monitoring [LTM]) is established. LTM is conducted at the property until COPC concentrations in groundwater sampled from all permanent monitoring wells are less than the SCDHEC RBSLs for three or more consecutive sampling events. Groundwater analytical results from permanent wells 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 203 Acorn Drive (Formerly 398 Acorn Drive). The sampling activities at 203 Acorn Drive (Formerly 398 Acorn Drive) comprised a soil investigation, IGWA sampling, installation and sampling of three permanent monitoring wells and LTM sampling. Details regarding the soil investigation at this site are provided in the *SCDHEC UST Assessment Report – 398 Acorn Drive* (MCAS Beaufort, 2008) and in the *SCDHEC UST Assessment Report – 398 Acorn Drive* (MCAS Beaufort, 2011). The UST Assessment Reports are provided in Appendix B. Details regarding the IGWA sampling activities at this site are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites* (Pandey Environmental LLC, 2008). The laboratory report that includes the pertinent IGWA analytical results for this site is presented in Appendix C. Details regarding the permanent well

installations and initial sampling activities at this site are provided in the *Report of Findings for Laurel Bay Military Housing Area Investigation of Potential Impacts to Groundwater from Former Heating Oil Underground Storage Tanks* (Tetra Tech NUS, Inc, 2010). The laboratory reports that includes the pertinent groundwater analytical results for this site are presented in Appendix D. Details regarding the LTM activities to date at this site are provided in the *2015 Groundwater Monitoring Report* (Resolution Consultants, 2015). A comprehensive table of the historical groundwater analytical results for all permanent monitoring wells at the site through 2015 is presented in Appendix E.

2.1 UST Removal and Soil Sampling

In 2007 and 2011, three 280 gallon heating oil USTs were removed from the front landscaped area at 203 Acorn Drive (Formerly 398 Acorn Drive). Tanks 1 and 2 were removed on June 28, 2007. Tank 3 was removed on March 9, 2011. The former UST locations are indicated on the figures of the UST Assessment Reports (Appendix B). The USTs were removed and properly disposed of (i.e., shipped offsite for recycling or transported to a landfill). There was no visual evidence (i.e., staining or sheen) of petroleum impact at the time of the UST removals. According to the UST Assessment Reports (Appendix B), the depths to the bases of the USTs were 4'8" bgs (Tank 1), 4'2" bgs (Tank 2) and 4'4" bgs (Tank 3) and a single soil sample was collected from that depth for each. An additional soil sample was collected from the side of the excavation for Tanks 1 and 2 at depths of 3'4" bgs (Tank 1) and 3'1" bgs (Tank 2). The samples were collected from the fill port side of the former USTs to represent a worst case scenario and shipped to an offsite laboratory for analysis of the petroleum COPCs. Sampling was performed in accordance with applicable South Carolina Regulation R.61-92, Part 280 (SCDHEC, 2017) and assessment guidelines.

2.2 Soil Analytical Results

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

The soil sample results were submitted by MCAS Beaufort to SCDHEC utilizing SCDHEC's UST Assessment Report form (Appendix B). The results of the soil sampling at the former UST locations (Tanks 1, 2 and 3) were used by MCAS Beaufort, in consultation with SCDHEC, to

determine a path forward (i.e., additional sampling or No Further Action [NFA]) for the property. The soil results collected from the former UST locations (Tanks 1, 2 and 3) at 203 Acorn Drive (Formerly 398 Acorn Drive) were greater than the SCDHEC RBSLs, which indicated further investigation was required. In a letter dated September 10, 2008, SCDHEC requested an IGWA for 203 Acorn Drive (Formerly 398 Acorn Drive) to determine if the groundwater was impacted by petroleum COPCs. SCDHEC's request letter is provided in Appendix F.

2.3 Initial Groundwater Sampling

On July 29, 2008, a single temporary monitoring well was installed at 203 Acorn Drive (Formerly 398 Acorn Drive), 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 USTs (Tanks 1 and 2). The former UST locations are indicated on the figures of the UST Assessment Reports (Appendix B). Further details are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites* (Pandey Environmental LLC, 2008).

The sampling strategy for this phase of the investigation required a one-time sampling event of the temporary monitoring well. Following well installation, a groundwater sample was collected using screen point sampler 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.H-I (SCDHEC, 2016). Field forms are provided in the *Investigation of Ground Water at Leaking Heating Oil UST Sites* (Pandey Environmental LLC, 2008).

2.4 Initial 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 203 Acorn Drive (Formerly 398 Acorn Drive) were greater than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 2), which indicated further investigation was required. In a letter dated December 30, 2008, SCDHEC requested a permanent well be installed for 203 Acorn Drive (Formerly 398 Acorn Drive) to confirm the impact to

groundwater detected in the temporary well sample. SCDHEC's request letter is provided in Appendix F.

2.5 Permanent Well Groundwater Sampling

In February 2010, three permanent monitoring wells were installed at 203 Acorn Drive (Formerly 398 Acorn Drive), 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, a permanent monitoring well, MW106, was placed in the same general location as the former heating oil USTs (Tanks 1 and 2) and the IGWA sample location. The former UST locations are indicated on the figures of the UST Assessment Reports (Appendix B). Two additional permanent wells (MW104 and MW105) were also installed around the property at 203 Acorn Drive (Formerly 398 Acorn Drive) to delineate potential contamination. Further details are provided in the *Report of Findings for Laurel Bay Military Housing Area Investigation of Potential Impacts to Groundwater from Former Heating Oil Underground Storage Tanks* (Tetra Tech NUS, Inc, 2010).

The sampling strategy for this phase of the investigation required an initial sampling event of the permanent monitoring wells. 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. Field forms are provided in the *Report of Findings for Laurel Bay Military Housing Area Investigation of Potential Impacts to Groundwater from Former Heating Oil Underground Storage Tanks* (Tetra Tech NUS, Inc, 2010).

2.6 Permanent Well Groundwater Analytical Results

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

The groundwater results collected from 203 Acorn Drive (Formerly 398 Acorn Drive) at MW106 were greater than the SCDHEC RBSLs (Table 3), which indicated that further investigation was required. In a letter dated April 6, 2011, SCDHEC requested that LTM be carried out for 203 Acorn Drive (Formerly 398 Acorn Drive) to continue to monitor the impact to groundwater detected in the permanent well sample (MW106). SCDHEC's request letter is provided in Appendix F.

2.7 Long Term Monitoring

The LTM program at 203 Acorn Drive (Formerly 398 Acorn Drive) consisted of annual groundwater sampling at the three permanent monitoring wells. LTM sampling activities were conducted in 2011 and then annually from 2013 until 2015 at the referenced site. The latest groundwater sampling details are provided in the *2015 Groundwater Monitoring Report* (Resolution Consultants, 2015).

The sampling strategy for this phase of the investigation required annual LTM sampling of the permanent wells until an optimized monitoring strategy (e.g., reduced COPCs, reduced sampling frequency, reduce number of wells, etc.) or NFA determination could made for the site. During each LTM sampling event, groundwater samples were collected using low-flow methods and shipped to an offsite laboratory for analysis of the petroleum COPCs. Field forms from the most recent sampling event at 203 Acorn Drive (Formerly 398 Acorn Drive) are provided in the *2015 Groundwater Monitoring Report* (Resolution Consultants, 2015).

2.8 Long Term Monitoring Analytical Results

A summary of the laboratory analytical results and SCDHEC RBSLs is presented in Table 4. A comprehensive table of the historical groundwater analytical results for all permanent monitoring wells at the site through 2015 is presented in Appendix E. The associated laboratory analytical data reports are located in each of the annual LBMH groundwater monitoring reports.

The groundwater results collected from 203 Acorn Drive (Formerly 398 Acorn Drive) were less than the SCDHEC RBSLs and the site specific groundwater VISLs (Table 4) during the 2013, 2014 and 2015 groundwater sampling events. This indicated that the groundwater was no longer impacted by COPCs associated with the former USTs at concentrations that may present a potential risk to human health and the environment.

3.0 PROPERTY STATUS

Based on the analytical results for groundwater collected from the permanent monitoring wells during the three most recent sampling events, SCDHEC made the determination that NFA was required for 203 Acorn Drive (Formerly 398 Acorn Drive). The NFA determination for groundwater was obtained in a letter dated February 22, 2016. SCDHEC's letter is provided in Appendix F.

4.0 REFERENCES

Marine Corps Air Station Beaufort, 2008. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 398 Acorn Drive, Laurel Bay Military Housing Area*, January 2008.

Marine Corps Air Station Beaufort, 2011. *South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank Assessment Report – 398 Acorn Drive, Laurel Bay Military Housing Area*, June 2011.

PANDEY Environmental, LLC, 2008. *Investigation of Ground Water at Leaking Heating Oil UST Sites for Laurel Bay Military Housing Area, Multiple Properties, Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina,* November 2008.

Resolution Consultants, 2015. *2015 Groundwater Monitoring Report for Laurel Bay Military Housing Area, Long-Term Monitoring (LTM), Laurel Bay Military Housing Area, Marine Corps Air Station Beaufort, Beaufort, South Carolina*, December 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.

Tetra Tech NUS, Inc, 2010. *Report of Findings for Laurel Bay Military Housing Area Investigation of Potential Impacts to Groundwater from Former Heating Oil Underground Storage Tanks*, July 2010.

Tables

Table 1
Laboratory Analytical Results - Soil
203 Acorn Drive (Formerly 398 Acorn Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Results Samples Collected 07/30/07 and 03/09/11				
		Bottom-01 07/30/07	Side-02 07/30/07	Bottom-03 07/30/07	Side-04 07/30/07	398 Acorn 03/09/2011
Volatile Organic Compounds Analyzed by EPA Method 8260B (mg/kg)						
Benzene	0.003	**0.000476**	**0.000541**	**0.000615**	**0.000477**	**0.0193**
Ethylbenzene	1.15	**0.000585**	**0.000479**	**0.000541**	**0.000499**	**0.439**
Naphthalene	0.036	**0.00362**	ND	ND	ND	**2.09**
Toluene	0.627	**0.0029**	**0.00262**	**0.00347**	**0.0028**	ND
Xylenes, Total	13.01	**0.00201**	**0.00110**	**0.00138**	**0.00113**	**0.00363**
Semivolatile Organic Compounds Analyzed by EPA Method 8270D (mg/kg)						
Benzo(a)anthracene	0.066	**0.223**	**0.467**	**0.078**	**0.0325**	ND
Benzo(b)fluoranthene	0.066	**0.132**	**0.306**	**0.0495**	ND	ND
Benzo(k)fluoranthene	0.066	**0.0806**	**0.128**	ND	ND	ND
Chrysene	0.066	**0.318**	**0.360**	**0.0831**	ND	ND
Dibenz(a,h)anthracene	0.066	**0.0282**	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 - Initial Groundwater
203 Acorn Drive (Formerly 398 Acorn Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Site-Specific Groundwater VISLs[2]	Results Sample Collected 07/29/08
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)			
Benzene	5	16.24	**1.8**
Ethylbenzene	700	45.95	**7.3**
Naphthalene	25	29.33	**71.1**
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	**0.16**
Benzo(b)fluoranthene	10	NA	ND
Benzo(k)fluoranthene	10	NA	ND
Chrysene	10	NA	**0.14**
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 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 $1x10^{-6}$, a target hazard quotient of 1 (per target organ), and a default residential exposure scenario, assuming exposure for 24 hours/day, 350 days/year, for 26 years. Modeling was performed for a range of depths to groundwater for application as appropriate in different areas of the Laurel Bay Military Housing Area. The most conservative levels are presented for comparison. Refer to Appendix H of the Uniform Federal Policy Sampling Analysis and Sampling Plan for Vapor Media, Revision 4 (Resolution Consultants, April 2017) for additional information.

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - not applicable

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

RBSL - Risk-Based Screening Level

SCDHEC - South Carolina Department Of Health and Environmental Control

µg/L - micrograms per liter

VISL - Vapor Intrusion Screening Level

Table 3
Laboratory Analytical Results - Permanent Monitoring Well Groundwater
203 Acorn Drive (Formerly 398 Acorn Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent	SCDHEC RBSLs [1]	Site-Specific Groundwater VISLs[2]	Results Sample Collected 02/25/2010		
			MW104	MW105	MW106
Volatile Organic Compounds Analyzed by EPA Method 8260B (µg/L)					
Benzene	5	16.24	ND	ND	**2.61**
Ethylbenzene	700	45.95	ND	ND	**5.66**
Naphthalene	25	29.33	ND	ND	**29.9**
Toluene	1000	105,445	ND	ND	ND
Xylenes, Total	10,000	2,133	ND	ND	**1.8**
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 $1x10^{-6}$, a target hazard quotient of 1 (per target organ), and a default residential exposure scenario, assuming exposure for 24 hours/day, 350 days/year, for 26 years. Modeling was performed for a range of depths to groundwater for application as appropriate in different areas of the Laurel Bay Military Housing Area. The most conservative levels are presented for comparison. Refer to Appendix H of the Uniform Federal Policy Sampling Analysis and Sampling Plan for Vapor Media, Revision 4 (Resolution Consultants, April 2017) for additional information.

Bold font indicates the analyte was detected.

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

EPA - United States Environmental Protection Agency

JE - Johnson & Ettinger

NA - not applicable

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

Table 4
Laboratory Analytical Results - Long Term Monitoring
203 Acorn Drive (Formerly 398 Acorn Drive)
Laurel Bay Military Housing Area
Marine Corps Air Station Beaufort
Beaufort, South Carolina

Constituent		Benzene	Ethylbenzene	Naphthalene	Toluene	Xylenes	Benzo(a) anthracene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene
SCDHEC RBSLs [1] (µg/L)		5	700	25	1000	10,000	10	10	10	10	10
Site-Specific Groundwater VISLs [2] (µg/L)		16.24	45.95	29.33	105,445	2,133	N/A	N/A	N/A	N/A	N/A
Well ID	**Sample Date**										
BEALB398MW104	10/28/2011	ND	ND	**0.38**	ND	ND	ND	ND	ND	ND	ND
	7/30/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/15/2015	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA
BEALB398MW105	10/28/2011	ND	ND	**0.68**	ND	ND	ND	ND	ND	ND	ND
	7/30/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/10/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/15/2015	ND	NA	**0.18**	NA	NA	NA	NA	NA	NA	NA
BEALB398MW106	10/28/2011	2.6	1.8	**27**	ND	ND	ND	ND	ND	ND	ND
	7/30/2013	**0.71**	**0.18**	**0.93**	ND	ND	ND	ND	ND	ND	ND
	9/10/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/15/2015	ND	NA	< 0.96 U	NA	NA	NA	NA	NA	NA	NA

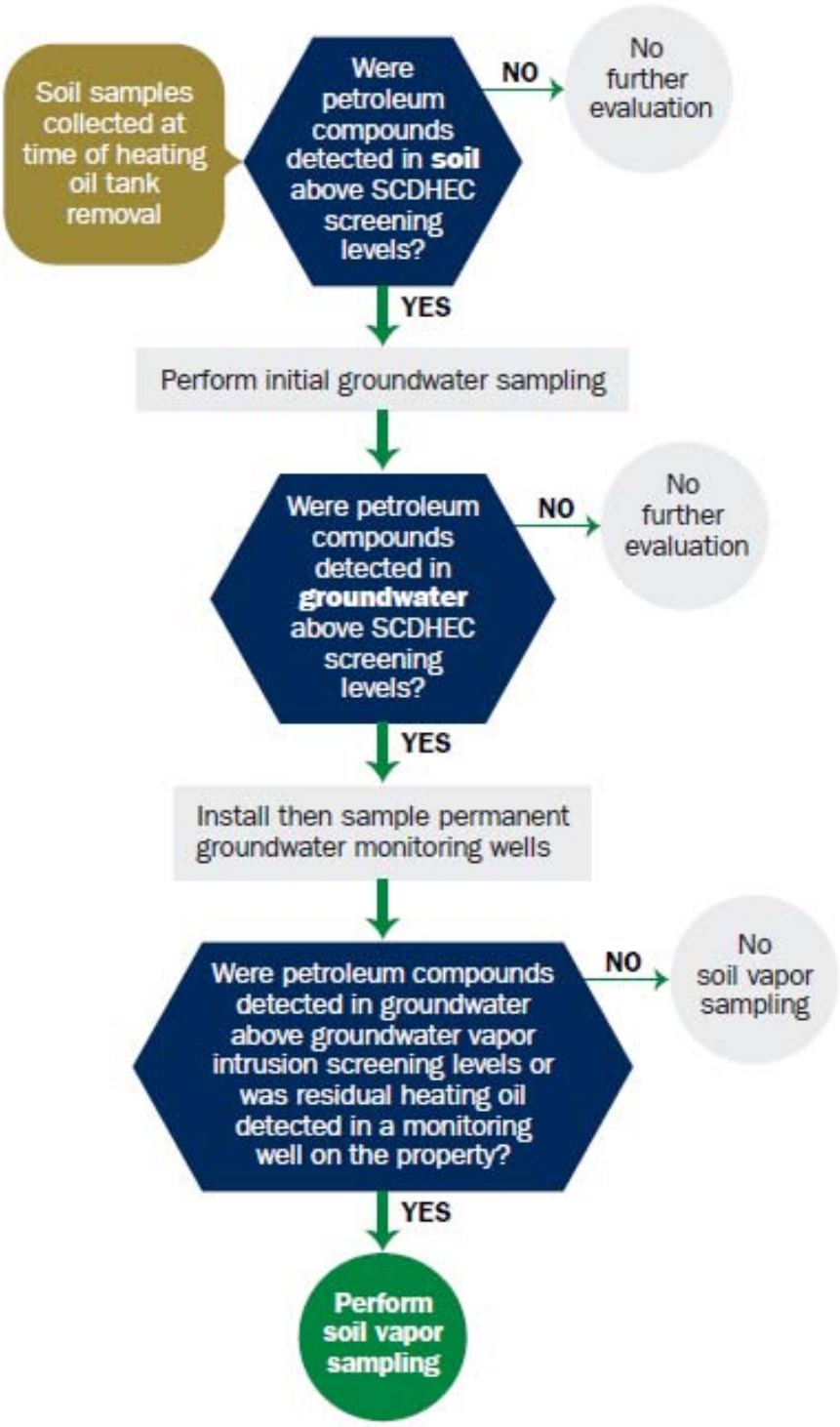
[1] South Carolina Risk-Based Screening Levels from the Quality Assurance Program Plan for the Underground Storage Tank Management Division, Revision 3.0 (SCDHEC, May 2015).

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

Bold font indicates the analyte was detected.
Bold font and shading indicates the concentration exceeds the SCDHEC RBSL and/or the Site-Specific Groundwater VISL.
JE - Johnson & Ettinger
N/A - not applicable
NA - not analyzed
ND - not detected at the reporting limit (or method detection limit if shown on the laboratory report). A comprehensive table of the historical groundwater analytical results for all permanent monitoring wells at the site through 2015 is presented in Appendix E.
RBSL - Risk-Based Screening Level
SCDHEC - South Carolina Department Of Health and Environmental Control
µg/L - micrograms per liter
VISL - Vapor Intrusion Screening Level

Appendix A
Multi-Media Selection Process for LBMH

CDM - AECOM
Multimedia Joint Venture



Appendix A - Multi-Media Selection Process for LBMH

Appendix B
UST Assessment Reports

CDM - AECOM
Multimedia Joint Venture

Attachment 1
South Carolina Department of Health and Environmental Control (SCDHEC)
Underground Storage Tank (UST) Assessment Report

[redacted]

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

I. OWNERSHIP OF UST (S)

Beaufort Military Complex Family Housing
Owner Name (Corporation, Individual, Public Agency, Other)

1510 Laurel Bay Blvd.
Mailing Address

Beaufort | SC | 29906
City | State | Zip Code

843 | 379-3305 | Kyle Broadfoot
Area Code | Telephone Number | Contact Person

II. SITE IDENTIFICATION AND LOCATION

N/A
Permit I.D. #

Actus Lend Lease Construction
Facility Name or Company Site Identifier

398 Acorn
Street Address or State Road (as applicable)

Beaufort, SC | 29906 | Beaufort
City | ZIP | County

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

The petroleum release reported to DHEC on N/A at Permit ID # 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.

And

I **do/do not** (circle one) wish to participate in the Superb Program.

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

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

V. UST INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A. Product...(ex. Gas, Kerosene).....	#2 DIESEL	#2 DIESEL				
B. Capacity..(ex. 1k, 2k)..... (APPROX.)	280G ~~550G~~	280G				
C. Age.....						
D. Construction Material..(ex. Steel, FRP).....	Steel	STEEL				
E. Month/Year of Last Use.....						
F. Depth (ft.) To Base of Tank.....	56"	50"				
G. Spill Prevention Equipment Y/N.....	N	N				
H. Overfill Prevention Equipment Y/N.....	N	N				
I. Method of Closure (Removed/Filled).....	Removed	REMOVED				
J. Date Tanks Removed/Filled.....	6-28-07	6-28-07				
K. Visible Corrosion or Pitting Y/N.....	N	Y				
L. Visible Holes Y/N.....	N	Y				

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

Recycling - Scrap Steel

N. Method of disposal for any liquid petroleum, sludges, or wastewaters removed from the USTs (attach disposal manifests)

TREATMENT FACILITY - BROADHURST LANDFILL
Solidification And SUBTITLE D LANDFILL

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

MANY SMALL HOLES ON THE ENDS OF TANK #2.

VI. P. .NG INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A. Construction Material..(ex. Steel, FRP).....	Steel	STEEL				
B. Distance from UST to Dispenser.....	N/A	N/A				
C. Number of Dispensers.....	-0-	0				
D. Type of System Pressure or Suction.....	Electric Pump	PUMP				
E. Was Piping Removed from the Ground? Y/N	Y	Y				
F. Visible Corrosion or Pitting Y/N.....	N	N				
G. Visible Holes Y/N.....	N	N				
H. Age.....						

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

VISIBLE Pitting WAS Noted on fill pipe & Vent pipe

VII. BRIEF SITE DESCRIPTION AND HISTORY

Home Heating Oil TANK - RESIDENTIAL

VIII. SITE C DITIONS

	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	

IX. SAMPLE INFORMATION

A. SCDHEC Lab Certification Number DW: 84009002

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
						ECHEVARRIA	
1	BOTTOM	S	MIX	56"	6-28-07 1500	A. MANUEL	ND
2	SIDE	S	MIX	40"	1515	A. MANUEL	ND
3	BOTTOM	S	CLAY	50"	1525		
4	SIDE	S	CLAY	37"	1530		
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

* = Depth Below the Surrounding Land Surface

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.

EPA Method 8260 B Volatile Organic Compounds
- Preservative: 2ea Sodium Bisulfate 1ea
EPA Method 8270 Poly Aromatic Hydrocarbons
- No Preservative

One (1) Sidewall and One (1) Bottom Sample were secured from tank excavation Samples were stored and shipped in an insulated cooler w/ ice.

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 type of well, distance, and direction on site map.		✓
C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map.		✓
D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? If yes, indicate the type of utility, distance, and direction on the site map.		✓
E. Has contaminated soil been identified at a depth less than 3 feet below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.		✓

SUMMARY OF ANALYSIS RESULTS N/A

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

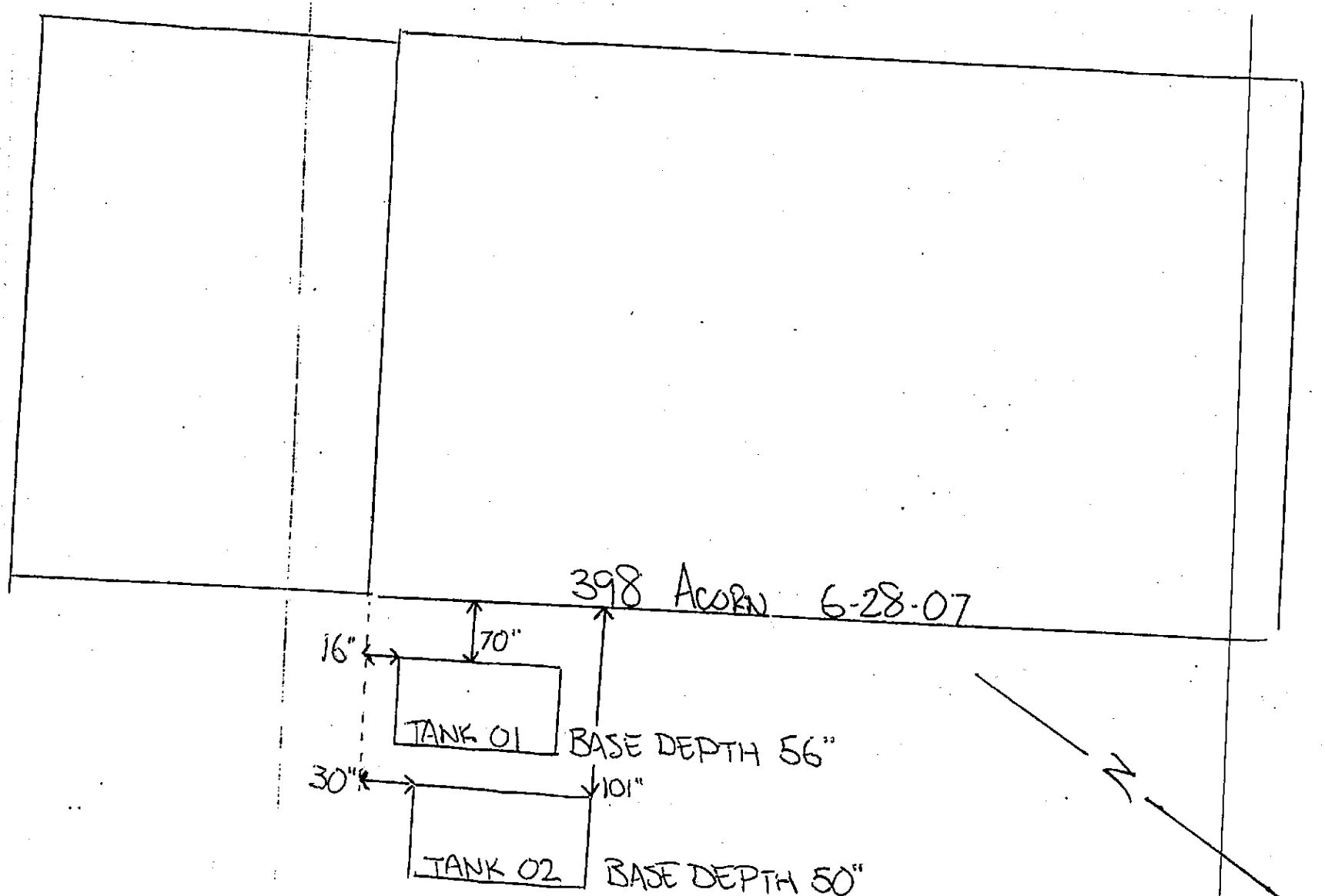
CoC	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

CoC	SB-9	SB-10	SB-11	SB-12	SB-13	SB-14	SB-15	SB-16
Benzene								
Toluene								
Ethylbenzene								
Xylenes								
Naphthalene								
Benzo(a)anthracene								
Benzo(b)flouranthene								
Benzo(k)flouranthene								
Chrysene								
Dibenz(a,h)anthracene								
TPH (EPA 3550)								

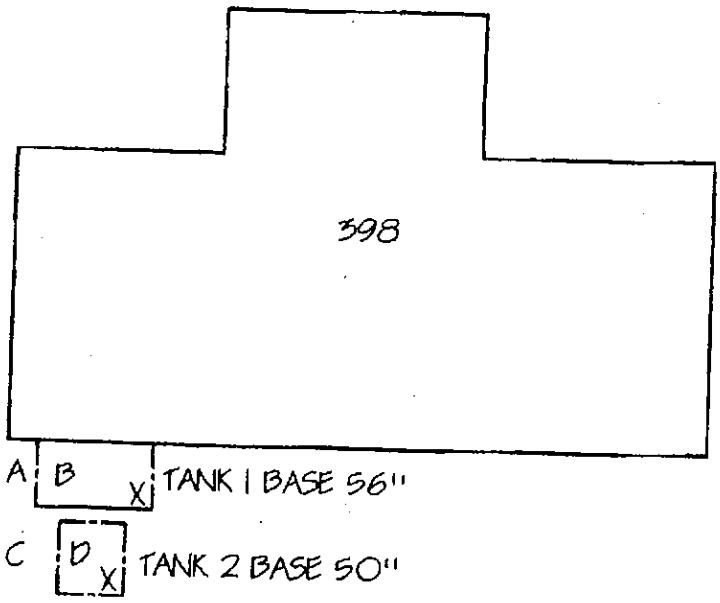
SUMMARY OF ANALYSIS RESULTS (cont'd) N/A

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	.05				
Lead	Site specific				



(Diesel ODOR PRESENT @ BOTTOM OF TANK 2 EXCAVATION)



ACORN DRIVE

N

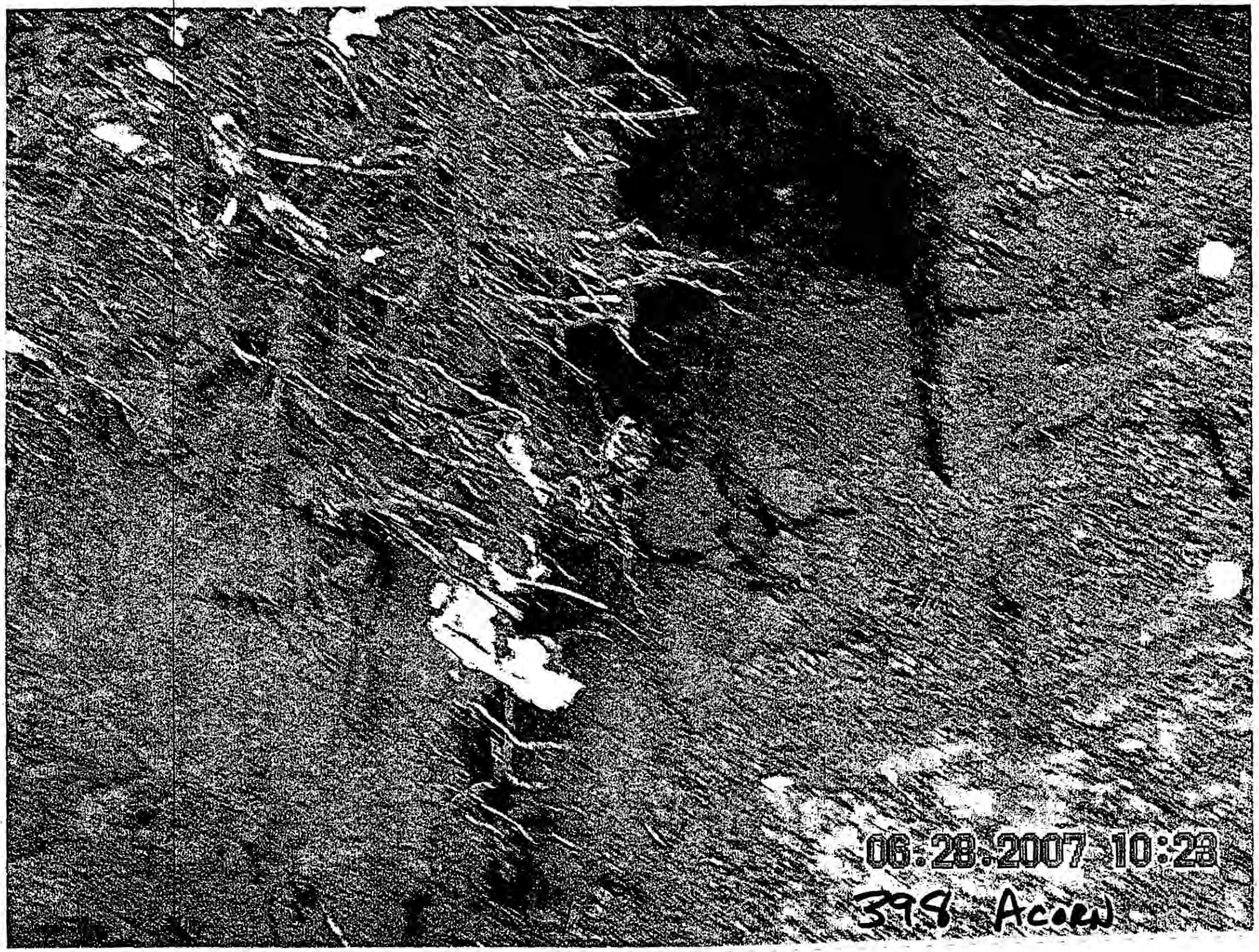
TANK 1 EXCAVATION

A-SOIL TEST SIDE SAMPLE @ 45"
B-SOIL TEST BOTTOM SAMPLE @ 56"
X-MILD DIESEL ODOR @ BOTTOM OF EXCAVATION

TANK 2 EXCAVATION

C-SOIL TEST SIDE SAMPLE @ 40"
D-SOIL TEST BOTTOM SAMPLE @ 50"
X-MILD DIESEL ODOR @ BOTTOM OF EXCAVATION

CUSTOMER: BEAUFORT MILITARY COMPLEX FAMILY HOUSING	SCALE: 1/16"=1'-0"	EPG INC.
SITE ADDRESS: 398 ACORN DRIVE	SUPPLIER: EPG INC.	P.O. BOX 1096
	DATE: 9/27/2007	MOUNT PLEASANT, SC 29465-1096


06:28:2007 10:23
398 Acow


06-28-2007 16:29

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)

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0084
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/30/07-07/31/07
Received: 08/03/07

LABORATORY REPORT
Sample ID: 391 ACRON SID-02 - Lab Number: OQH0084-04 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynuclear Aromatic Hydrocarbons by EPA Method 8270											
83-32-9	Acenaphthene	86.4	Y,U	ug/kg dry	86.4	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
208-96-8	Acenaphthylene	114	Y,U	ug/kg dry	114	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
120-12-7	Anthracene	62.2	Y,U	ug/kg dry	62.2	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
56-55-3	**Benzo (a) anthracene**	255	Y	ug/kg dry	21.1	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
205-99-2	**Benzo (b) fluoranthene**	333	Y	ug/kg dry	20.5	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
207-08-9	**Benzo (k) fluoranthene**	128	Y,I	ug/kg dry	20.5	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
191-24-2	**Benzo (g,h,i) perylene**	253	Y	ug/kg dry	20.2	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
50-32-8	**Benzo (a) pyrene**	163	Y,I	ug/kg dry	24.0	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
90-12-0	1-Methylnaphthalene	97.9	Y,U	ug/kg dry	97.9	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
218-01-9	Chrysene	23.3	Y,U	ug/kg dry	23.3	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
53-70-3	**Dibenz (a,h) anthracene**	75.1	Y,I	ug/kg dry	25.6	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
206-44-0	Fluoranthene	28.0	Y,U	ug/kg dry	28.0	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
86-73-7	Fluorene	76.3	Y,U	ug/kg dry	76.3	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
193-39-5	**Indeno (1,2,3-cd) pyrene**	269	Y	ug/kg dry	25.2	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
91-57-6	2-Methylnaphthalene	83.1	Y,U	ug/kg dry	83.1	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
91-20-3	Naphthalene	78.3	Y,U	ug/kg dry	78.3	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
85-01-8	Phenanthrene	46.0	Y,U	ug/kg dry	46.0	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
129-00-0	Pyrene	39.6	Y,U	ug/kg dry	39.6	195	1	08/12/07 13:30	REM	EPA 8270C	7H09030
Surrogate: 2-Fluorobiphenyl (24-121%)		*58 %*									
Surrogate: Nitrobenzene-d5 (19-111%)		*64 %*									
Surrogate: Terphenyl-d14 (44-171%)		*115 %*									

LABORATORY REPORT
Sample ID: 398 ACRON BOT-01 - Lab Number: OQH0084-05 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
N/A	% Solids	77.8		%	0.100	0.100	1	08/06/07 15:25	RRP	EPA 160.3	7H06026
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	Benzene	0.476	Y,I	ug/kg dry	0.396	1.08	1	08/05/07 00:07	JWT	EPA 8260B	7H04004
100-41-4	Ethylbenzene	0.585	Y,I	ug/kg dry	0.458	1.08	1	08/05/07 00:07	JWT	EPA 8260B	7H04004
91-20-3	Naphthalene	3.62	Y	ug/kg dry	0.598	1.08	1	08/05/07 00:07	JWT	EPA 8260B	7H04004
108-88-3	Toluene	2.90	Y	ug/kg dry	0.935	1.08	1	08/05/07 00:07	JWT	EPA 8260B	7H04004
1330-20-7	Xylenes, total	2.01	Y	ug/kg dry	0.562	1.08	1	08/05/07 00:07	JWT	EPA 8260B	7H04004
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		*122 %*									
Surrogate: 4-Bromofluorobenzene (59-118%)		*91 %*									
Surrogate: Dibromofluoromethane (55-145%)		*105 %*									
Surrogate: Toluene-d8 (80-117%)		*97 %*									
Polynuclear Aromatic Hydrocarbons by EPA Method 8270											
83-32-9	Acenaphthene	776	Y	ug/kg dry	95.2	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
208-96-8	Acenaphthylene	126	Y,U	ug/kg dry	126	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
120-12-7	Anthracene	211	Y,I	ug/kg dry	68.5	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
56-55-3	**Benzo (a) anthracene**	223	Y	ug/kg dry	23.3	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030

TestAmerica - Orlando, FL
Enid Ortiz For Shali Brown
Project Manager

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0084
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/30/07-07/31/07
Received: 08/03/07

LABORATORY REPORT
Sample ID: 398 ACRON BOT-01 - Lab Number: OQH0084-05 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.											
205-99-2	**Benzo (b) fluoranthene**	**132**	Y,I	ug/kg dry	22.6	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
207-08-9	**Benzo (k) fluoranthene**	**80.6**	Y,I	ug/kg dry	22.6	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
191-24-2	Benzo (g,h,i) perylene	22.3	Y,U	ug/kg dry	22.3	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
50-32-8	**Benzo (a) pyrene**	**91.3**	Y,I	ug/kg dry	26.4	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
90-12-0	**1-Methylnaphthalene**	**3250**	Y	ug/kg dry	108	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
218-01-9	**Chrysene**	**318**	Y	ug/kg dry	25.7	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
53-70-3	Dibenz (a,h) anthracene	28.2	Y,U	ug/kg dry	28.2	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
206-44-0	**Fluoranthene**	**560**	Y	ug/kg dry	30.9	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
86-73-7	**Fluorene**	**805**	Y	ug/kg dry	84.1	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
193-39-5	Indeno (1,2,3-cd) pyrene	27.8	Y,U	ug/kg dry	27.8	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
91-57-6	**2-Methylnaphthalene**	**2460**	Y	ug/kg dry	91.6	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
91-20-3	**Naphthalene**	**220**	Y	ug/kg dry	86.3	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
85-01-8	**Phenanthrene**	**2050**	Y	ug/kg dry	50.7	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
129-00-0	**Pyrene**	**426**	Y	ug/kg dry	43.6	215	1	08/12/07 13:52	REM	EPA 8270C	7H09030
Surrogate: 2-Fluorobiphenyl (24-121%)		*50 %*									
Surrogate: Nitrobenzene-d5 (19-111%)		*52 %*									
Surrogate: Terphenyl-d14 (44-171%)		*89 %*									

LABORATORY REPORT
Sample ID: 398 ACRON SID-02 - Lab Number: OQH0084-06 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
N/A	**% Solids**	**73.7**		%.	0.100	0.100	1	08/06/07 15:25	RRP	EPA 160.3	7H06026
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	**Benzene**	**0.541**	Y,I	ug/kg dry	0.381	1.04	1	08/05/07 00:24	JWT	EPA 8260B	7H04004
100-41-4	**Ethylbenzene**	**0.479**	Y,I	ug/kg dry	0.440	1.04	1	08/05/07 00:24	JWT	EPA 8260B	7H04004
91-20-3	Naphthalene	0.575	Y,U	ug/kg dry	0.575	1.04	1	08/05/07 00:24	JWT	EPA 8260B	7H04004
108-88-3	**Toluene**	**2.62**	Y	ug/kg dry	0.899	1.04	1	08/05/07 00:24	JWT	EPA 8260B	7H04004
1330-20-7	**Xylenes, total**	**1.10**	Y	ug/kg dry	0.541	1.04	1	08/05/07 00:24	JWT	EPA 8260B	7H04004
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		*119 %*									
Surrogate: 4-Bromofluorobenzene (59-118%)		*91 %*									
Surrogate: Dibromofluoromethane (55-145%)		*106 %*									
Surrogate: Toluene-d8 (80-117%)		*96 %*									
Polynuclear Aromatic Hydrocarbons by EPA Method 8270											
83-32-9	**Acenaphthene**	**560**	Y	ug/kg dry	100	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
208-96-8	Acenaphthylene	133	Y,U	ug/kg dry	133	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
120-12-7	**Anthracene**	**390**	Y	ug/kg dry	72.3	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
56-55-3	**Benzo (a) anthracene**	**467**	Y	ug/kg dry	24.5	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
205-99-2	**Benzo (b) fluoranthene**	**306**	Y	ug/kg dry	23.9	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
207-08-9	**Benzo (k) fluoranthene**	**128**	Y,I	ug/kg dry	23.9	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
191-24-2	**Benzo (g,h,i) perylene**	**43.9**	Y,I	ug/kg dry	23.5	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030

TestAmerica - Orlando, FL
Enid Ortiz For Shali Brown
Project Manager

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0084
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/30/07-07/31/07
Received: 08/03/07

LABORATORY REPORT
Sample ID: 398 ACRON SID-02 - Lab Number: OQH0084-06 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.											
0-32-8	**Benzo (a) pyrene**	171	Y,I	ug/kg dry	27.9	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
0-12-0	**1-Methylnaphthalene**	3500	Y	ug/kg dry	114	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
18-01-9	**Chrysene**	360	Y	ug/kg dry	27.1	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
3-70-3	Dibenz (a,h) anthracene	29.8	Y,U	ug/kg dry	29.8	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
06-44-0	**Fluoranthene**	937	Y	ug/kg dry	32.6	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
5-73-7	**Fluorene**	639	Y	ug/kg dry	88.7	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
93-39-5	Indeno (1,2,3-cd) pyrene	29.4	Y,U	ug/kg dry	29.4	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
1-57-6	**2-Methylnaphthalene**	4650	Y	ug/kg dry	96.7	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
1-20-3	**Naphthalene**	479	Y	ug/kg dry	91.0	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
1-01-8	**Phenanthrene**	1900	Y	ug/kg dry	53.5	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
29-00-0	**Pyrene**	742	Y	ug/kg dry	46.1	227	1	08/12/07 14:14	REM	EPA 8270C	7H09030
Surrogate: 2-Fluorobiphenyl (24-121%)		*63 %*									
Surrogate: Nitrobenzene-d5 (19-111%)		*71 %*									
Surrogate: Terphenyl-d14 (44-171%)		*110 %*									

LABORATORY REPORT
Sample ID: 398 ACRON BOT-03 - Lab Number: OQH0084-07 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
	% Solids	71.4		%	0.100	0.100	1	08/06/07 15:25	RRP	EPA 160.3	7H06026
Volatile Organic Compounds by EPA Method 8260B											
43-2	**Benzene**	0.615	Y,I	ug/kg dry	0.450	1.23	1	08/05/07 00:40	JWT	EPA 8260B	7H04004
1-41-4	**Ethylbenzene**	0.541	Y,I	ug/kg dry	0.520	1.23	1	08/05/07 00:40	JWT	EPA 8260B	7H04004
20-3	Naphthalene	0.679	Y,U	ug/kg dry	0.679	1.23	1	08/05/07 00:40	JWT	EPA 8260B	7H04004
-88-3	**Toluene**	3.47	Y	ug/kg dry	1.06	1.23	1	08/05/07 00:40	JWT	EPA 8260B	7H04004
0-20-7	**Xylenes, total**	1.38	Y	ug/kg dry	0.638	1.23	1	08/05/07 00:40	JWT	EPA 8260B	7H04004
rogate: 1,2-Dichloroethane-d4 (73-137%)		*118 %*									
rogate: 4-Bromofluorobenzene (59-118%)		*92 %*									
rogate: Dibromofluoromethane (55-145%)		*106 %*									
rogate: Toluene-d8 (80-117%)		*96 %*									
lynuclear Aromatic Hydrocarbons by EPA Method 8270											
2-9	**Acenaphthene**	910	Y	ug/kg dry	104	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
96-8	Acenaphthylene	137	Y,U	ug/kg dry	137	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
12-7	**Anthracene**	834	Y	ug/kg dry	74.6	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
5-3	**Benzo (a) anthracene**	78.0	Y,I	ug/kg dry	25.3	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
99-2	**Benzo (b) fluoranthene**	49.5	Y,I	ug/kg dry	24.6	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
08-9	Benzo (k) fluoranthene	24.6	Y,U	ug/kg dry	24.6	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
24-2	Benzo (g,h,i) perylene	24.3	Y,U	ug/kg dry	24.3	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
2-8	Benzo (a) pyrene	28.8	Y,U	ug/kg dry	28.8	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
2-0	**1-Methylnaphthalene**	5030	Y	ug/kg dry	117	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
01-9	**Chrysene**	83.1	Y,I	ug/kg dry	28.0	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030

TestAmerica - Orlando, FL
Enid Ortiz For Shali Brown
Project Manager

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0084
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/30/07-07/31/07
Received: 08/03/07

LABORATORY REPORT
Sample ID: 398 ACRON BOT-03 - Lab Number: OQH0084-07 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.											
3-70-3	Dibenz (a,h) anthracene	30.7	Y,U	ug/kg dry	30.7	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
06-44-0	**Fluoranthene**	**131**	Y,I	ug/kg dry	33.7	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
6-73-7	Fluorene	91.6	Y,U	ug/kg dry	91.6	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
93-39-5	Indeno (1,2,3-cd) pyrene	30.3	Y,U	ug/kg dry	30.3	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
1-57-6	**2-Methylnaphthalene**	**5620**	Y	ug/kg dry	99.8	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
1-20-3	**Naphthalene**	**685**	Y	ug/kg dry	94.0	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
5-01-8	**Phenanthrene**	**1980**	Y	ug/kg dry	55.2	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
29-00-0	Pyrene	47.5	Y,U	ug/kg dry	47.5	234	1	08/12/07 14:37	REM	EPA 8270C	7H09030
urrogate: 2-Fluorobiphenyl (24-121%)		*88 %*									
urrogate: Nitrobenzene-d5 (19-111%)		*90 %*									
urrogate: Terphenyl-d14 (44-171%)		*120 %*									

LABORATORY REPORT
Sample ID: 398 ACRON SID-04 - Lab Number: OQH0084-08 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
eneral Chemistry Parameters											
A	**% Solids**	**72.9**		%	0.100	0.100	1	08/06/07 15:25	RRP	EPA 160.3	7H06026
olatile Organic Compounds by EPA Method 8260B											
-43-2	**Benzene**	**0.477**	Y,I	ug/kg dry	0.397	1.08	1	08/05/07 00:57	JWT	EPA 8260B	7H04004
0-41-4	**Ethylbenzene**	**0.499**	Y,I	ug/kg dry	0.459	1.08	1	08/05/07 00:57	JWT	EPA 8260B	7H04004
-20-3	Naphthalene	0.599	Y,U	ug/kg dry	0.599	1.08	1	08/05/07 00:57	JWT	EPA 8260B	7H04004
8-88-3	**Toluene**	**2.80**	Y	ug/kg dry	0.937	1.08	1	08/05/07 00:57	JWT	EPA 8260B	7H04004
30-20-7	**Xylenes, total**	**1.13**	Y	ug/kg dry	0.564	1.08	1	08/05/07 00:57	JWT	EPA 8260B	7H04004
rrogate: 1,2-Dichloroethane-d4 (73-137%)		*120 %*									
rrogate: 4-Bromofluorobenzene (59-118%)		*91 %*									
rrogate: Dibromofluoromethane (55-145%)		*106 %*									
rogate: Toluene-d8 (80-117%)		*98 %*									
lynuclear Aromatic Hydrocarbons by EPA Method 8270											
32-9	**Acenaphthene**	**165**	Y,I	ug/kg dry	101	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
3-96-8	Acenaphthylene	134	Y,U	ug/kg dry	134	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
)-12-7	**Anthracene**	**115**	Y,I	ug/kg dry	73.0	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
55-3	**Benzo (a) anthracene**	**32.5**	Y,I	ug/kg dry	24.8	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
-99-2	Benzo (b) fluoranthene	24.1	Y,U	ug/kg dry	24.1	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
-08-9	Benzo (k) fluoranthene	24.1	Y,U	ug/kg dry	24.1	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
-24-2	Benzo (g,h,i) perylene	23.8	Y,U	ug/kg dry	23.8	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
32-8	Benzo (a) pyrene	28.2	Y,U	ug/kg dry	28.2	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
12-0	**1-Methylnaphthalene**	**522**	Y	ug/kg dry	115	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
-01-9	Chrysene	27.4	Y,U	ug/kg dry	27.4	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
70-3	Dibenz (a,h) anthracene	30.1	Y,U	ug/kg dry	30.1	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
-44-0	**Fluoranthene**	**73.1**	Y,I	ug/kg dry	32.9	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
3-7	**Fluorene**	**166**	Y,I	ug/kg dry	89.6	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
39-5	Indeno (1,2,3-cd) pyrene	29.6	Y,U	ug/kg dry	29.6	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030

TestAmerica - Orlando, FL
Enid Ortiz For Shali Brown
Project Manager

Client: EPG, INC.
PO BOX 1096
MT PLEASANT, SC 29465
Attn: JOHN MAHONEY

Work Order: OQH0084
Project: LAUREL BAY
Project Number: EP2362

Sampled: 07/30/07-07/31/07
Received: 08/03/07

LABORATORY REPORT
Sample ID: 398 ACRON SID-04 - Lab Number: OQH0084-08 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
Polynuclear Aromatic Hydrocarbons by EPA Method 8270 - Cont.											
91-57-6	2-Methylnaphthalene	386	Y	ug/kg dry	97.6	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
91-20-3	Naphthalene	92.0	Y,U	ug/kg dry	92.0	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
35-01-8	Phenanthrene	460	Y	ug/kg dry	54.0	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
129-00-0	Pyrene	46.5	Y,U	ug/kg dry	46.5	229	1	08/12/07 14:59	REM	EPA 8270C	7H09030
Surrogate: 2-Fluorobiphenyl (24-121%)		*66 %*									
Surrogate: Nitrobenzene-d5 (19-111%)		*68 %*									
Surrogate: Terphenyl-d14 (44-171%)		*107 %*									

LABORATORY REPORT
Sample ID: 294 BIRCH BOT-01 - Lab Number: OQH0084-09 - Matrix: Solid/Soil

CAS #	Analyte	Result	Q	Units	MDL	PQL	Dil Factor	Analyzed Date/Time	By	Method	Batch
General Chemistry Parameters											
N/A	% Solids	75.8		%.	0.100	0.100	1	08/07/07 14:10	RRP	EPA 160.3	7H07029
Volatile Organic Compounds by EPA Method 8260B											
71-43-2	Benzene	0.619	Y,I	ug/kg dry	0.436	1.19	1	08/05/07 01:14	JWT	EPA 8260B	7H04004
100-41-4	Ethylbenzene	0.548	Y,I	ug/kg dry	0.504	1.19	1	08/05/07 01:14	JWT	EPA 8260B	7H04004
91-20-3	Naphthalene	2.29	Y	ug/kg dry	0.658	1.19	1	08/05/07 01:14	JWT	EPA 8260B	7H04004
108-88-3	Toluene	3.10	Y	ug/kg dry	1.03	1.19	1	08/05/07 01:14	JWT	EPA 8260B	7H04004
1330-20-7	Xylenes, total	1.69	Y	ug/kg dry	0.618	1.19	1	08/05/07 01:14	JWT	EPA 8260B	7H04004
Surrogate: 1,2-Dichloroethane-d4 (73-137%)		*122 %*									
Surrogate: 4-Bromofluorobenzene (59-118%)		*93 %*									
Surrogate: Dibromofluoromethane (55-145%)		*108 %*									
Surrogate: Toluene-d8 (80-117%)		*98 %*									
Polynuclear Aromatic Hydrocarbons by EPA Method 8270											
83-32-9	Acenaphthene	157	Y,I	ug/kg dry	97.6	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
208-96-8	Acenaphthylene	129	Y,U	ug/kg dry	129	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
120-12-7	Anthracene	212	Y,I	ug/kg dry	70.3	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
56-55-3	Benzo (a) anthracene	100	Y,I	ug/kg dry	23.9	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
205-99-2	Benzo (b) fluoranthene	96.7	Y,I	ug/kg dry	23.2	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
207-08-9	Benzo (k) fluoranthene	29.9	Y,I	ug/kg dry	23.2	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
191-24-2	Benzo (g,h,i) perylene	22.9	Y,U	ug/kg dry	22.9	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
50-32-8	Benzo (a) pyrene	48.4	Y,I	ug/kg dry	27.1	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
90-12-0	1-Methylnaphthalene	226	Y	ug/kg dry	111	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
218-01-9	Chrysene	126	Y,I	ug/kg dry	26.4	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
53-70-3	Dibenz (a,h) anthracene	28.9	Y,U	ug/kg dry	28.9	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
206-44-0	Fluoranthene	150	Y,I	ug/kg dry	31.7	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
86-73-7	Fluorene	86.2	Y,U	ug/kg dry	86.2	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
193-39-5	Indeno (1,2,3-cd) pyrene	28.5	Y,U	ug/kg dry	28.5	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
91-57-6	2-Methylnaphthalene	293	Y	ug/kg dry	93.9	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
91-20-3	Naphthalene	88.5	Y,U	ug/kg dry	88.5	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030
85-01-8	Phenanthrene	460	Y	ug/kg dry	52.0	220	1	08/12/07 15:21	REM	EPA 8270C	7H09030

TestAmerica - Orlando, FL
Enid Ortiz For Shali Brown
Project Manager

O QL40084 Page 1 of 2

TestAmerica
ANALYTICAL TESTING CORPORATION

Client Name: EPG
Client #: 2411
Address:
City/State/Zip Code:
Project Manager: John Mahoney
Telephone Number: 843-881-0167
Fax: 843-881-7766
Sampler Name: (Print Name) John Mahoney
Sampler Signature: [signature]

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

Project Name: Laurel Bay
Project #: EP 2362
Site/Location ID:
State:
Report To:
Invoice To:
Quote #:
PO#:

TAT
✓ Standard
___ Rush (surcharges may apply)

Date Needed:

Fax Results: Y N

QC Deliverables
___ None
✓ Level 2 (Batch QC)
___ Level 3
___ Level 4
Other:

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix (SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other)	HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	BTEX + NAPTH 8260	PAH 8270	REMARKS
389 Acorn Bot-01	7/30/07	9:10	G		S					1	2	2	X	X	01
389 Acorn Sid-02	"	9:20	C		S					1	2	2	X	X	02
391 Acorn Bot-01	"	10:10	G		S					1	2	2	X	X	03
391 Acorn Sid-02	"	10:15	C		S					1	2	2	X	X	04
398 Acorn Bot-01	"	10:50	G		S					1	2	2	X	X	05
398 Acorn Sid-02	"	10:55	C		S					1	2	2	X	X	06
398 Acorn Bot-03	"	11:10	G		S					1	2	2	X	X	07
398 Acorn Sid-04	"	11:15	C		S					1	2	2	X	X	08
14 Birch Bot-01	7/31/07	9:30	G		S					1	2	2	X	X	09
294 Birch Sid-02	7/31/07	09:35	C		S					1	2	2	X	X	10

Special Instructions:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	8/2/07 (7/31/07 struck)	14:00	[signature]	8/2/07	1400
[signature]	8/2/07	1730	[signature]	8/3/07	9:15

LABORATORY COMMENTS:
Init Lab Temp: 2.3
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
864325917758
Method of Shipment: FedEx to TA Orlando

0 Q H 0084 page 2 of 2

TestAmerica
ANALYTICAL TESTING CORPORATION

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

Client Name: EPG Client #: 2911
Address:
City/State/Zip Code:
Project Manager: JOHN MAHONEY
Telephone Number: 843 881-0467 Fax: 843-881-0467
Sampler Name: (Print Name) JOHN MAHONEY
Sampler Signature:

Project Name: LAUREL BAY
Project #: EP2362
Site/Location ID: State:
Report To:
Invoice To:
Quote #: PO#:

TAT: X Standard; ___ Rush (surcharges may apply)
Date Needed:
Fax Results: Y N

SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix: SL - Sludge, DW - Drinking Water, GW - Groundwater, S - Soil/Solid, WW - Wastewater, Specify Other	Preservation & # of Containers: HNO_3	HCl	NaOH	H_2SO_4	Methanol	None	Other (Specify)	Analyze For: BTEX-NAPTH 8260	PAH 8270	REMARKS
294 BIRCH BOT 03	7/31/07	0945	G		S					1	2	2	X	X	11
294 BIRCH SID 04	11	0955	C		S					1	2	2	X	X	12
292 BIRCH BOT 01	11	10:30	G		S					1	2	2	X	X	13
292 BIRCH SID 02	11	10:35	C		S					1	2	2	X	X	14
292 BIRCH BOT 03	11	10:50	G		S					1	2	2	X	X	15
292 BIRCH SID 04	11	11:00	C		S					1	2	2	X	X	16

QC Deliverables: ___ None; X Level 2 (Batch QC); ___ Level 3; ___ Level 4; Other: ___

Special Instructions:

	Date	Time		Date	Time
Relinquished By:	8/2/07 7/31/07	14:00	Received By:	8/1/07	1407 1730
Relinquished By:	8/2/07	1730	Received By: AM	8/3/07	7:15
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

LABORATORY COMMENTS:
Init Lab Temp: 0.3
Rec Lab Temp:
Custody Seals: Y N N/A
Bottles Supplied by Test America: Y N
Method of Shipment: FEDEX UPS

Attachment 1

South Carolina Department of Health and Environmental Control (SCDHEC)

Underground Storage Tank (UST) Assessment Report

Date Received	State Use Only

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

I. OWNERSHIP OF UST (S)

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

P.O. Box 55001
Mailing Address

Beaufort,	South Carolina	29904-5001
City	State	Zip Code

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

II. SITE IDENTIFICATION AND LOCATION

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

398 Acorn Drive, Laurel Bay Military Housing Area
Street Address or State Road (as applicable)

Beaufort,	Beaufort
City	County

Attachment 2

III. INSURANCE INFORMATION

Insurance Statement

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

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

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

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

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

IV. REQUEST FOR SUPERB FUNDING

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

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

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

_____
Name (Type or print.)

_____
Signature

To be completed by Notary Public:

Sworn before me this _____ day of_____, 20____

_____
(Name)

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

VI. UST INFORMATION

A.	Product...(ex. Gas, Kerosene).....	398Acorn	
B.	Capacity..(ex. 1k, 2k).....	Heating oil	
C.	Age.....	280 gal	
D.	Construction Material..(ex. Steel, FRP).....	Late 1950s	
E.	Month/Year of Last Use.....	Steel	
F.	Depth (ft.) To Base of Tank.....	Mid 80s	
G.	Spill Prevention Equipment Y/N.....	4'4"	
H.	Overfill Prevention Equipment Y/N.....	No	
I.	Method of Closure Removed/Filled.....	No	
J.	Date Tanks Removed/Filled.....	Removed	
K.	Visible Corrosion or Pitting Y/N.....	3/9/2011	
L.	Visible Holes Y/N.....	Yes	
		Yes	

M. Method of disposal for any USTs removed from the ground (attach disposal manifests)
UST 398Acorn was removed from the ground and disposed of 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 398Acorn was previously filled with sand by others.

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

VII. PIPING INFORMATION

A.	Construction Material..(ex. Steel, FRP).....	398Acorn	
B.	Distance from UST to Dispenser.....	Steel & Copper	
C.	Number of Dispensers.....	N/A	
D.	Type of System Pressure or Suction.....	N/A	
E.	Was Piping Removed from the Ground? Y/N	Suction	
F.	Visible Corrosion or Pitting Y/N.....	Yes	
G.	Visible Holes Y/N.....	Yes	
H.	Age.....	No	
		Late 1950s	

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

Steel vent piping was corroded and pitted. The copper supply and return piping 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? *Surrounding the fill inlet 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? *Slight odor in excavation 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 84009001

B.

Sample #	Location	Sample Type (Soil/Water)	Soil Type (Sand/Clay)	Depth*	Date/Time of Collection	Collected by	OVA #
398 Acorn	Excav at fill end	Soil	Sandy-clay	4'4"	3/9/11 1345 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.

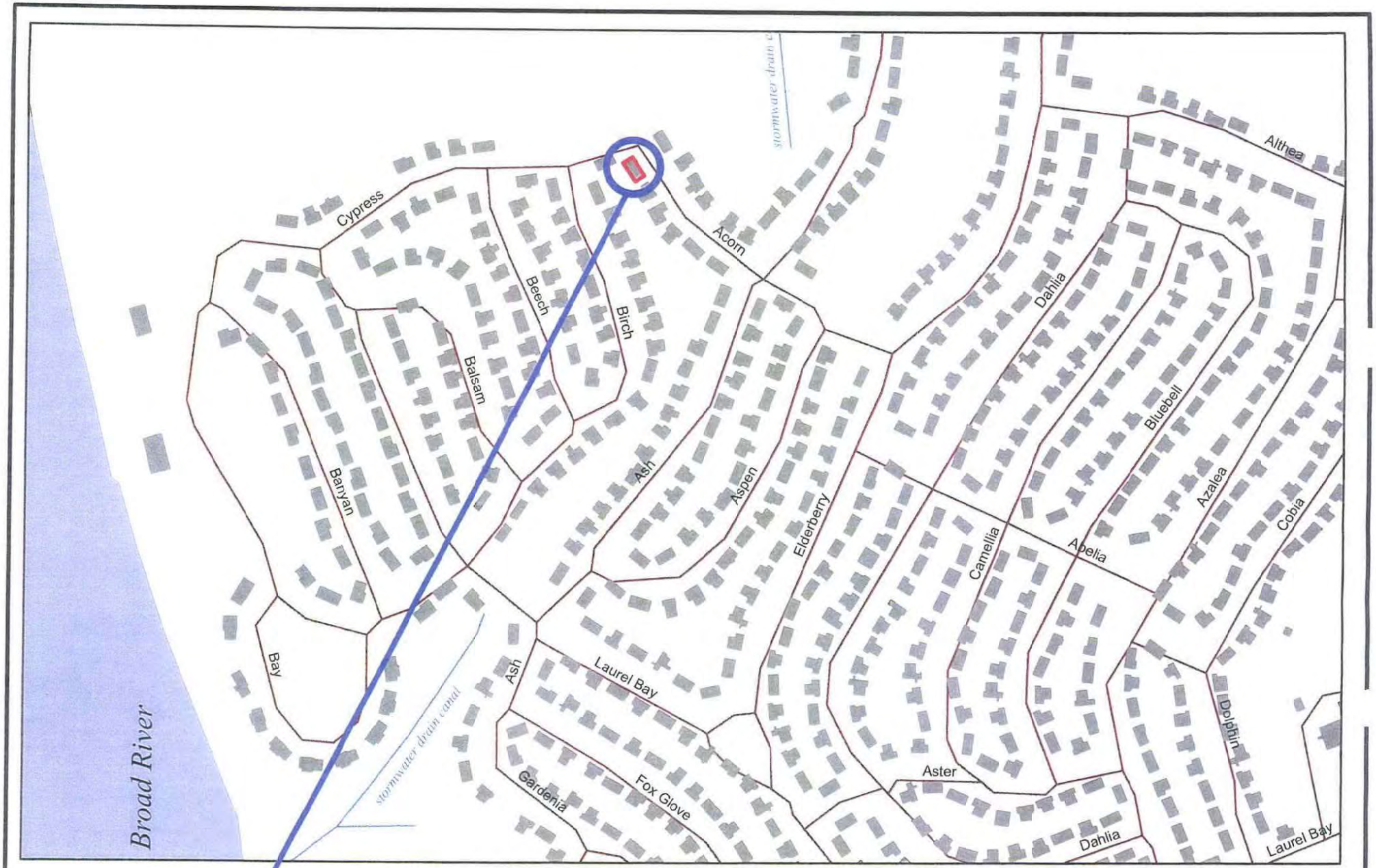
XII. RECEPTORS

	Yes	No
A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? *Approx 395' to stormwater drainage canal If yes, indicate type of receptor, distance, and direction on site map.	*X	
B. Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		X
C. Are there any underground structures (e.g., basements) Located within 100 feet of the UST system? If yes, indicate type of structure, distance, and direction on site map.		X
D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? *Sewer, water, electricity, cable and 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)

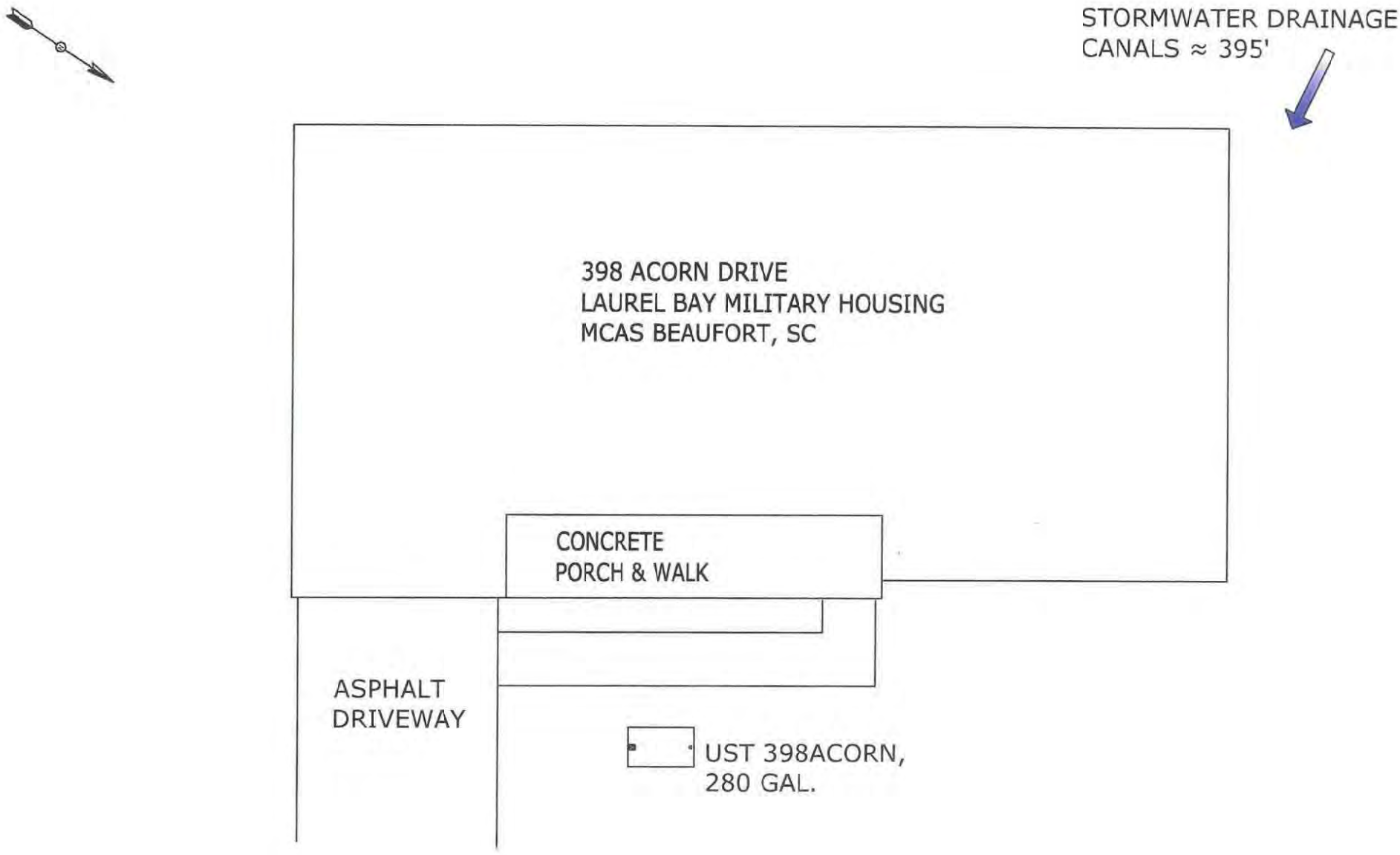


SBG-EEG, Inc.
398 E. 5th North Street, Suite C
Summerville SC 29483-6954
Ph. (843) 875-1930

Drawn By: L. DiAsio

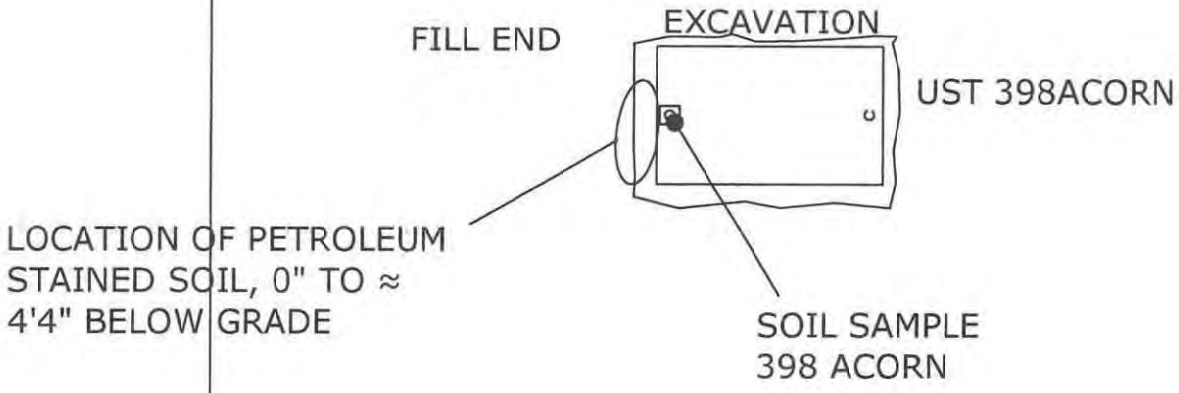
Dwg Date: APR 2011

FIGURE 1: LOCATION MAP
398 ACORN DR.
LAUREL BAY, BEAUFORT SC



SBG-EEG 398 E. 5 NORTH ST., SUITE C SUMMERVILLE, SC 29483-6954	FIGURE 2 SITE MAP 398 ACORN DR., LAUREL BAY MCAS BEAUFORT SC
	SCALE: GRAPHIC | DWG DATE APR 2011

398 ACORN DRIVE



STORMWATER DRAINAGE CANALS ≈ 395'

TANK WAS 16" BELOW GRADE

GRAPHIC SCALE
0 5'

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

FIGURE 3 UST SAMPLE LOCATIONS
398 ACORN DR., LAUREL BAY
MCAS BEAUFORT SC

SCALE: GRAPHIC | DWG DATE APR 2011

Picture 1: Location of UST 398Acorn.

Picture 2: UST 398Acorn tank pit with soil staining.

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	398Acorn					
Benzene	0.0193 mg/kg					
Toluene	ND					
Ethylbenzene	0.439 mg/kg					
Xylenes	0.00363 mg/kg					
Naphthalene	2.09 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

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

March 24, 2011 4:39:59PM

Client: EEG - Small Business Group, Inc. (2449)
10179 Highway 78
Ladson, SC 29456
Attn: Tom McElwee

Work Order: NUC2232
Project Name: Laurel Bay Housing Project
Project Nbr: [none]
P/O Nbr: 1027
Date Received: 03/12/11

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
394 Acorn-1	NUC2232-01	03/08/11 11:45
394 Acorn-2	NUC2232-02	03/08/11 15:00
398 Acorn	NUC2232-03	03/08/11 13:45

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

South Carolina Certification Number: 84009

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

All solids results are reported in wet weight unless specifically stated.
Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:

Roxanne L. Connor

Roxanne Connor

Program Manager - Conventional Accounts

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC2232-01 (394 Acorn-1 - Soil) Sampled: 03/08/11 11:45										
General Chemistry Parameters										
% Dry Solids	77.7		%	0.500	0.500	1	03/23/11 11:01	SW-846	AMS	11C5313
Volatile Organic Compounds by EPA Method 8260B										
Benzene	ND		mg/kg dry	0.00126	0.00229	1	03/18/11 19:00	SW846 8260B	KxC	11C4713
Ethylbenzene	ND		mg/kg dry	0.00112	0.00229	1	03/18/11 19:00	SW846 8260B	KxC	11C4713
Naphthalene	0.00500	J	mg/kg dry	0.00194	0.00572	1	03/18/11 19:00	SW846 8260B	KxC	11C4713
Toluene	ND		mg/kg dry	0.00102	0.00229	1	03/18/11 19:00	SW846 8260B	KxC	11C4713
Xylenes, total	ND		mg/kg dry	0.00217	0.00572	1	03/18/11 19:00	SW846 8260B	KxC	11C4713
Surr: 1,2-Dichloroethane-d4 (67-138%)	*100 %*					*1*	*03/18/11 19:00*	*SW846 8260B*	*KxC*	*11C4713*
Surr: Dibromofluoromethane (75-125%)	*99 %*					*1*	*03/18/11 19:00*	*SW846 8260B*	*KxC*	*11C4713*
Surr: Toluene-d8 (76-129%)	*103 %*					*1*	*03/18/11 19:00*	*SW846 8260B*	*KxC*	*11C4713*
Surr: 4-Bromofluorobenzene (67-147%)	*113 %*					*1*	*03/18/11 19:00*	*SW846 8260B*	*KxC*	*11C4713*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0180	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Acenaphthylene	ND		mg/kg dry	0.0257	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Anthracene	ND		mg/kg dry	0.0116	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Benzo (a) anthracene	ND		mg/kg dry	0.0142	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Benzo (a) pyrene	ND		mg/kg dry	0.0103	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Benzo (b) fluoranthene	ND		mg/kg dry	0.0489	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0116	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Benzo (k) fluoranthene	ND		mg/kg dry	0.0476	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Chrysene	ND		mg/kg dry	0.0399	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0193	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Fluoranthene	ND		mg/kg dry	0.0142	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Fluorene	ND		mg/kg dry	0.0257	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0399	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Naphthalene	ND		mg/kg dry	0.0180	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Phenanthrene	0.0506	J	mg/kg dry	0.0129	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Pyrene	ND		mg/kg dry	0.0296	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
1-Methylnaphthalene	ND		mg/kg dry	0.0154	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
2-Methylnaphthalene	ND		mg/kg dry	0.0270	0.0862	1	03/15/11 20:31	SW846 8270D	KJP	11C3311
Surr: Terphenyl-d14 (18-120%)	*52 %*					*1*	*03/15/11 20:31*	*SW846 8270D*	*KJP*	*11C3311*
Surr: 2-Fluorobiphenyl (14-120%)	*47 %*					*1*	*03/15/11 20:31*	*SW846 8270D*	*KJP*	*11C3311*
Surr: Nitrobenzene-d5 (17-120%)	*44 %*					*1*	*03/15/11 20:31*	*SW846 8270D*	*KJP*	*11C3311*

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC2232-02 (394 Acorn-2 - Soil) Sampled: 03/08/11 15:00										
General Chemistry Parameters										
% Dry Solids	81.2		%	0.500	0.500	1	03/23/11 11:01	SW-846	AMS	11C5313
Volatile Organic Compounds by EPA Method 8260B										
Benzene	0.00261		mg/kg dry	0.00105	0.00191	1	03/18/11 19:31	SW846 8260B	KxC	11C4713
Ethylbenzene	0.672		mg/kg dry	0.0446	0.0910	50	03/21/11 17:11	SW846 8260B	KxC	11C5142
Naphthalene	7.65		mg/kg dry	0.0774	0.228	50	03/21/11 17:11	SW846 8260B	KxC	11C5142
Toluene	ND	RL1	mg/kg dry	0.0405	0.0910	50	03/21/11 17:11	SW846 8260B	KxC	11C5142
Xylenes, total	ND	RL1	mg/kg dry	0.0865	0.228	50	03/21/11 17:11	SW846 8260B	KxC	11C5142
Surr: 1,2-Dichloroethane-d4 (67-138%)	*102 %*					*1*	*03/18/11 19:31*	*SW846 8260B*	*KxC*	*11C4713*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*95 %*					*50*	*03/21/11 17:11*	*SW846 8260B*	*KxC*	*11C5142*
Surr: Dibromofluoromethane (75-125%)	*103 %*					*1*	*03/18/11 19:31*	*SW846 8260B*	*KxC*	*11C4713*
Surr: Dibromofluoromethane (75-125%)	*94 %*					*50*	*03/21/11 17:11*	*SW846 8260B*	*KxC*	*11C5142*
Surr: Toluene-d8 (76-129%)	*228 %*	*ZX*				*1*	*03/18/11 19:31*	*SW846 8260B*	*KxC*	*11C4713*
Surr: Toluene-d8 (76-129%)	*103 %*					*50*	*03/21/11 17:11*	*SW846 8260B*	*KxC*	*11C5142*
Surr: 4-Bromofluorobenzene (67-147%)	*224 %*	*ZX*				*1*	*03/18/11 19:31*	*SW846 8260B*	*KxC*	*11C4713*
Surr: 4-Bromofluorobenzene (67-147%)	*119 %*					*50*	*03/21/11 17:11*	*SW846 8260B*	*KxC*	*11C5142*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	0.435		mg/kg dry	0.0172	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Acenaphthylene	0.203		mg/kg dry	0.0246	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Anthracene	0.235		mg/kg dry	0.0111	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Benzo (a) anthracene	ND		mg/kg dry	0.0135	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Benzo (a) pyrene	ND		mg/kg dry	0.00985	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Benzo (b) fluoranthene	ND		mg/kg dry	0.0468	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0111	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Benzo (k) fluoranthene	ND		mg/kg dry	0.0455	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Chrysene	ND		mg/kg dry	0.0382	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0185	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Fluoranthene	0.0451	J	mg/kg dry	0.0135	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Fluorene	1.25		mg/kg dry	0.0246	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0382	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Naphthalene	2.61		mg/kg dry	0.0172	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Phenanthrene	2.12		mg/kg dry	0.0123	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
Pyrene	0.128		mg/kg dry	0.0283	0.0825	1	03/15/11 20:54	SW846 8270D	KJP	11C3311
1-Methylnaphthalene	7.58		mg/kg dry	0.0738	0.412	5	03/17/11 19:53	SW846 8270D	KJP	11C3311
2-Methylnaphthalene	11.6		mg/kg dry	0.129	0.412	5	03/17/11 19:53	SW846 8270D	KJP	11C3311
Surr: Terphenyl-d14 (18-120%)	*65 %*					*1*	*03/15/11 20:54*	*SW846 8270D*	*KJP*	*11C3311*
Surr: 2-Fluorobiphenyl (14-120%)	*56 %*					*1*	*03/15/11 20:54*	*SW846 8270D*	*KJP*	*11C3311*
Surr: Nitrobenzene-d5 (17-120%)	*58 %*					*1*	*03/15/11 20:54*	*SW846 8270D*	*KJP*	*11C3311*

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MDL	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NUC2232-03 (398 Acorn - Soil) Sampled: 03/08/11 13:45										
General Chemistry Parameters										
% Dry Solids	76.4		%	0.500	0.500	1	03/23/11 11:01	SW-846	AMS	11C5313
Volatile Organic Compounds by EPA Method 8260B										
Benzene	0.0193		mg/kg dry	0.00117	0.00213	1	03/18/11 20:02	SW846 8260B	KxC	11C4713
Ethylbenzene	0.439		mg/kg dry	0.0512	0.105	50	03/21/11 17:42	SW846 8260B	KxC	11C5142
Naphthalene	2.09		mg/kg dry	0.0888	0.261	50	03/21/11 17:42	SW846 8260B	KxC	11C5142
Toluene	ND		mg/kg dry	0.000950	0.00213	1	03/18/11 20:02	SW846 8260B	KxC	11C4713
Xylenes, total	0.00363	J, CF7	mg/kg dry	0.00203	0.00534	1	03/18/11 20:02	SW846 8260B	KxC	11C4713
Surr: 1,2-Dichloroethane-d4 (67-138%)	*100 %*					*1*	*03/18/11 20:02*	*SW846 8260B*	*KxC*	*11C4713*
Surr: 1,2-Dichloroethane-d4 (67-138%)	*96 %*					*50*	*03/21/11 17:42*	*SW846 8260B*	*KxC*	*11C5142*
Surr: Dibromofluoromethane (75-125%)	*93 %*					*1*	*03/18/11 20:02*	*SW846 8260B*	*KxC*	*11C4713*
Surr: Dibromofluoromethane (75-125%)	*95 %*					*50*	*03/21/11 17:42*	*SW846 8260B*	*KxC*	*11C5142*
Surr: Toluene-d8 (76-129%)	*126 %*					*1*	*03/18/11 20:02*	*SW846 8260B*	*KxC*	*11C4713*
Surr: Toluene-d8 (76-129%)	*102 %*					*50*	*03/21/11 17:42*	*SW846 8260B*	*KxC*	*11C5142*
Surr: 4-Bromofluorobenzene (67-147%)	*144 %*					*1*	*03/18/11 20:02*	*SW846 8260B*	*KxC*	*11C4713*
Surr: 4-Bromofluorobenzene (67-147%)	*101 %*					*50*	*03/21/11 17:42*	*SW846 8260B*	*KxC*	*11C5142*
Polyaromatic Hydrocarbons by EPA 8270D										
Acenaphthene	ND		mg/kg dry	0.0183	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Acenaphthylene	ND		mg/kg dry	0.0262	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Anthracene	ND		mg/kg dry	0.0118	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Benzo (a) anthracene	ND		mg/kg dry	0.0144	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Benzo (a) pyrene	ND		mg/kg dry	0.0105	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Benzo (b) fluoranthene	ND		mg/kg dry	0.0497	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Benzo (g,h,i) perylene	ND		mg/kg dry	0.0118	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Benzo (k) fluoranthene	ND		mg/kg dry	0.0484	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Chrysene	ND		mg/kg dry	0.0406	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Dibenz (a,h) anthracene	ND		mg/kg dry	0.0196	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Fluoranthene	ND		mg/kg dry	0.0144	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Fluorene	0.109		mg/kg dry	0.0262	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Indeno (1,2,3-cd) pyrene	ND		mg/kg dry	0.0406	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Naphthalene	0.301		mg/kg dry	0.0183	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Phenanthrene	0.202		mg/kg dry	0.0131	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Pyrene	ND		mg/kg dry	0.0301	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
1-Methylnaphthalene	0.662		mg/kg dry	0.0157	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
2-Methylnaphthalene	1.05		mg/kg dry	0.0275	0.0877	1	03/15/11 21:16	SW846 8270D	KJP	11C3311
Surr: Terphenyl-d14 (18-120%)	*69 %*					*1*	*03/15/11 21:16*	*SW846 8270D*	*KJP*	*11C3311*
Surr: 2-Fluorobiphenyl (14-120%)	*66 %*					*1*	*03/15/11 21:16*	*SW846 8270D*	*KJP*	*11C3311*
Surr: Nitrobenzene-d5 (17-120%)	*62 %*					*1*	*03/15/11 21:16*	*SW846 8270D*	*KJP*	*11C3311*

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extract Vol	Date	Analyst	Extraction Method
Polyaromatic Hydrocarbons by EPA 8270D							
SW846 8270D	11C3311	NUC2232-01	30.00	1.00	03/15/11 11:00	SAS	EPA 3550C
SW846 8270D	11C3311	NUC2232-02	30.00	1.00	03/15/11 11:00	SAS	EPA 3550C
SW846 8270D	11C3311	NUC2232-02RE1	30.00	1.00	03/15/11 11:00	SAS	EPA 3550C
SW846 8270D	11C3311	NUC2232-03	30.00	1.00	03/15/11 11:00	SAS	EPA 3550C
Volatile Organic Compounds by EPA Method 8260B							
SW846 8260B	11C4713	NUC2232-01	5.63	5.00	03/08/11 11:45	TSP	EPA 5035
SW846 8260B	11C4713	NUC2232-02	6.45	5.00	03/08/11 15:00	TSP	EPA 5035
SW846 8260B	11C5142	NUC2232-02RE1	6.76	5.00	03/08/11 15:00	TSP	EPA 5035
SW846 8260B	11C4713	NUC2232-03	6.13	5.00	03/08/11 13:45	TSP	EPA 5035
SW846 8260B	11C5142	NUC2232-03RE1	6.26	5.00	03/08/11 13:45	TSP	EPA 5035

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
11C4713-BLK1						
Benzene	<0.00110		mg/kg wet	11C4713	11C4713-BLK1	03/18/11 12:09
Ethylbenzene	<0.000980		mg/kg wet	11C4713	11C4713-BLK1	03/18/11 12:09
Naphthalene	<0.00170		mg/kg wet	11C4713	11C4713-BLK1	03/18/11 12:09
Toluene	<0.000890		mg/kg wet	11C4713	11C4713-BLK1	03/18/11 12:09
Xylenes, total	<0.00190		mg/kg wet	11C4713	11C4713-BLK1	03/18/11 12:09
Surrogate: 1,2-Dichloroethane-d4	98%			11C4713	11C4713-BLK1	03/18/11 12:09
Surrogate: Dibromofluoromethane	98%			11C4713	11C4713-BLK1	03/18/11 12:09
Surrogate: Toluene-d8	102%			11C4713	11C4713-BLK1	03/18/11 12:09
Surrogate: 4-Bromofluorobenzene	100%			11C4713	11C4713-BLK1	03/18/11 12:09
11C4713-BLK2						
Benzene	<0.0550		mg/kg wet	11C4713	11C4713-BLK2	03/18/11 12:39
Ethylbenzene	<0.0490		mg/kg wet	11C4713	11C4713-BLK2	03/18/11 12:39
Naphthalene	<0.0850		mg/kg wet	11C4713	11C4713-BLK2	03/18/11 12:39
Toluene	<0.0445		mg/kg wet	11C4713	11C4713-BLK2	03/18/11 12:39
Xylenes, total	<0.0950		mg/kg wet	11C4713	11C4713-BLK2	03/18/11 12:39
Surrogate: 1,2-Dichloroethane-d4	90%			11C4713	11C4713-BLK2	03/18/11 12:39
Surrogate: Dibromofluoromethane	97%			11C4713	11C4713-BLK2	03/18/11 12:39
Surrogate: Toluene-d8	101%			11C4713	11C4713-BLK2	03/18/11 12:39
Surrogate: 4-Bromofluorobenzene	97%			11C4713	11C4713-BLK2	03/18/11 12:39
11C5142-BLK1						
Benzene	<0.00110		mg/kg wet	11C5142	11C5142-BLK1	03/21/11 11:33
Ethylbenzene	<0.000980		mg/kg wet	11C5142	11C5142-BLK1	03/21/11 11:33
Naphthalene	<0.00170		mg/kg wet	11C5142	11C5142-BLK1	03/21/11 11:33
Toluene	<0.000890		mg/kg wet	11C5142	11C5142-BLK1	03/21/11 11:33
Xylenes, total	<0.00190		mg/kg wet	11C5142	11C5142-BLK1	03/21/11 11:33
Surrogate: 1,2-Dichloroethane-d4	103%			11C5142	11C5142-BLK1	03/21/11 11:33
Surrogate: Dibromofluoromethane	102%			11C5142	11C5142-BLK1	03/21/11 11:33
Surrogate: Toluene-d8	101%			11C5142	11C5142-BLK1	03/21/11 11:33
Surrogate: 4-Bromofluorobenzene	99%			11C5142	11C5142-BLK1	03/21/11 11:33
11C5142-BLK2						
Benzene	<0.0550		mg/kg wet	11C5142	11C5142-BLK2	03/21/11 12:04
Ethylbenzene	<0.0490		mg/kg wet	11C5142	11C5142-BLK2	03/21/11 12:04
Naphthalene	<0.0850		mg/kg wet	11C5142	11C5142-BLK2	03/21/11 12:04
Toluene	<0.0445		mg/kg wet	11C5142	11C5142-BLK2	03/21/11 12:04
Xylenes, total	<0.0950		mg/kg wet	11C5142	11C5142-BLK2	03/21/11 12:04
Surrogate: 1,2-Dichloroethane-d4	96%			11C5142	11C5142-BLK2	03/21/11 12:04
Surrogate: Dibromofluoromethane	101%			11C5142	11C5142-BLK2	03/21/11 12:04
Surrogate: Toluene-d8	104%			11C5142	11C5142-BLK2	03/21/11 12:04
Surrogate: 4-Bromofluorobenzene	98%			11C5142	11C5142-BLK2	03/21/11 12:04

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
Polyaromatic Hydrocarbons by EPA 8270D						
11C3311-BLK1						
Acenaphthene	<0.0140		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Acenaphthylene	<0.0200		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Anthracene	<0.00900		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Benzo (a) anthracene	<0.0110		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Benzo (a) pyrene	<0.00800		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Benzo (b) fluoranthene	<0.0380		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Benzo (g,h,i) perylene	<0.00900		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Benzo (k) fluoranthene	<0.0370		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Chrysene	<0.0310		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Dibenz (a,h) anthracene	<0.0150		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Fluoranthene	<0.0110		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Fluorene	<0.0200		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Indeno (1,2,3-cd) pyrene	<0.0310		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Naphthalene	<0.0140		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Phenanthrene	<0.0100		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Pyrene	<0.0230		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
1-Methylnaphthalene	<0.0120		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
2-Methylnaphthalene	<0.0210		mg/kg wet	11C3311	11C3311-BLK1	03/15/11 16:30
Surrogate: Terphenyl-d14	61%			11C3311	11C3311-BLK1	03/15/11 16:30
Surrogate: 2-Fluorobiphenyl	53%			11C3311	11C3311-BLK1	03/15/11 16:30
Surrogate: Nitrobenzene-d5	53%			11C3311	11C3311-BLK1	03/15/11 16:30

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec.	Analyzed Date/Time
General Chemistry Parameters										
11C5313-DUP1										
% Dry Solids	86.0	85.4		%	0.7	20	11C5313	NUC1997-07		03/23/11 11:01

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
11C4713-BS1								
Benzene	50.0	52.6		ug/kg	105%	78 - 126	11C4713	03/18/11 11:05
Ethylbenzene	50.0	55.8		ug/kg	112%	79 - 130	11C4713	03/18/11 11:05
Naphthalene	50.0	54.9		ug/kg	110%	72 - 150	11C4713	03/18/11 11:05
Toluene	50.0	55.8		ug/kg	112%	76 - 126	11C4713	03/18/11 11:05
Xylenes, total	150	165		ug/kg	110%	80 - 130	11C4713	03/18/11 11:05
Surrogate: 1,2-Dichloroethane-d4	50.0	50.6			101%	67 - 138	11C4713	03/18/11 11:05
Surrogate: Dibromofluoromethane	50.0	49.1			98%	75 - 125	11C4713	03/18/11 11:05
Surrogate: Toluene-d8	50.0	52.1			104%	76 - 129	11C4713	03/18/11 11:05
Surrogate: 4-Bromofluorobenzene	50.0	49.9			100%	67 - 147	11C4713	03/18/11 11:05
11C5142-BS1								
Benzene	50.0	51.3		ug/kg	103%	78 - 126	11C5142	03/21/11 10:32
Ethylbenzene	50.0	54.4		ug/kg	109%	79 - 130	11C5142	03/21/11 10:32
Naphthalene	50.0	56.4		ug/kg	113%	72 - 150	11C5142	03/21/11 10:32
Toluene	50.0	53.0		ug/kg	106%	76 - 126	11C5142	03/21/11 10:32
Xylenes, total	150	163		ug/kg	109%	80 - 130	11C5142	03/21/11 10:32
Surrogate: 1,2-Dichloroethane-d4	50.0	53.4			107%	67 - 138	11C5142	03/21/11 10:32
Surrogate: Dibromofluoromethane	50.0	50.9			102%	75 - 125	11C5142	03/21/11 10:32
Surrogate: Toluene-d8	50.0	50.6			101%	76 - 129	11C5142	03/21/11 10:32
Surrogate: 4-Bromofluorobenzene	50.0	50.2			100%	67 - 147	11C5142	03/21/11 10:32
Polyaromatic Hydrocarbons by EPA 8270D								
11C3311-BS1								
Acenaphthene	1.67	1.07		mg/kg wet	64%	49 - 120	11C3311	03/15/11 16:51
Acenaphthylene	1.67	1.18		mg/kg wet	71%	52 - 120	11C3311	03/15/11 16:51
Anthracene	1.67	1.19		mg/kg wet	71%	58 - 120	11C3311	03/15/11 16:51
Benzo (a) anthracene	1.67	1.17		mg/kg wet	70%	57 - 120	11C3311	03/15/11 16:51
Benzo (a) pyrene	1.67	1.17		mg/kg wet	70%	55 - 120	11C3311	03/15/11 16:51
Benzo (b) fluoranthene	1.67	1.18		mg/kg wet	71%	51 - 123	11C3311	03/15/11 16:51
Benzo (g,h,i) perylene	1.67	1.18		mg/kg wet	71%	49 - 121	11C3311	03/15/11 16:51
Benzo (k) fluoranthene	1.67	1.15		mg/kg wet	69%	42 - 129	11C3311	03/15/11 16:51
Chrysene	1.67	1.20		mg/kg wet	72%	55 - 120	11C3311	03/15/11 16:51
Dibenz (a,h) anthracene	1.67	1.20		mg/kg wet	72%	50 - 123	11C3311	03/15/11 16:51
Fluoranthene	1.67	1.15		mg/kg wet	69%	58 - 120	11C3311	03/15/11 16:51
Fluorene	1.67	1.17		mg/kg wet	70%	54 - 120	11C3311	03/15/11 16:51
Indeno (1,2,3-cd) pyrene	1.67	1.17		mg/kg wet	70%	50 - 122	11C3311	03/15/11 16:51
Naphthalene	1.67	0.998		mg/kg wet	60%	28 - 120	11C3311	03/15/11 16:51
Phenanthrene	1.67	1.18		mg/kg wet	71%	56 - 120	11C3311	03/15/11 16:51
Pyrene	1.67	1.23		mg/kg wet	74%	56 - 120	11C3311	03/15/11 16:51
1-Methylnaphthalene	1.67	0.915		mg/kg wet	55%	36 - 120	11C3311	03/15/11 16:51
2-Methylnaphthalene	1.67	1.01		mg/kg wet	61%	36 - 120	11C3311	03/15/11 16:51

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D								
11C3311-BS1								
Surrogate: Terphenyl-d14	1.67	1.06			63%	18 - 120	11C3311	03/15/11 16:51
Surrogate: 2-Fluorobiphenyl	1.67	1.04			63%	14 - 120	11C3311	03/15/11 16:51
Surrogate: Nitrobenzene-d5	1.67	0.872			52%	17 - 120	11C3311	03/15/11 16:51

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B										
11C4713-MS1										
Benzene	ND	0.0329		mg/kg wet	0.0409	80%	42 - 141	11C4713	NUC1513-01R E1	03/18/11 20:32
Ethylbenzene	0.00548	0.0390		mg/kg wet	0.0409	82%	21 - 165	11C4713	NUC1513-01R E1	03/18/11 20:32
Naphthalene	0.00389	0.0457		mg/kg wet	0.0409	102%	10 - 160	11C4713	NUC1513-01R E1	03/18/11 20:32
Toluene	ND	0.0366		mg/kg wet	0.0409	89%	45 - 145	11C4713	NUC1513-01R E1	03/18/11 20:32
Xylenes, total	0.00152	0.112		mg/kg wet	0.123	90%	31 - 159	11C4713	NUC1513-01R E1	03/18/11 20:32
Surrogate: 1,2-Dichloroethane-d4		49.9		ug/kg	50.0	100%	67 - 138	11C4713	NUC1513-01R E1	03/18/11 20:32
Surrogate: Dibromofluoromethane		46.5		ug/kg	50.0	93%	75 - 125	11C4713	NUC1513-01R E1	03/18/11 20:32
Surrogate: Toluene-d8		52.5		ug/kg	50.0	105%	76 - 129	11C4713	NUC1513-01R E1	03/18/11 20:32
Surrogate: 4-Bromofluorobenzene		50.5		ug/kg	50.0	101%	67 - 147	11C4713	NUC1513-01R E1	03/18/11 20:32
11C5142-MS1										
Benzene	ND	0.0433		mg/kg wet	0.0464	93%	42 - 141	11C5142	NUC1913-16R E1	03/21/11 18:12
Ethylbenzene	ND	0.0410		mg/kg wet	0.0464	88%	21 - 165	11C5142	NUC1913-16R E1	03/21/11 18:12
Naphthalene	ND	0.0111		mg/kg wet	0.0464	24%	10 - 160	11C5142	NUC1913-16R E1	03/21/11 18:12
Toluene	ND	0.0472		mg/kg wet	0.0464	102%	45 - 145	11C5142	NUC1913-16R E1	03/21/11 18:12
Xylenes, total	ND	0.117		mg/kg wet	0.139	84%	31 - 159	11C5142	NUC1913-16R E1	03/21/11 18:12
Surrogate: 1,2-Dichloroethane-d4		51.6		ug/kg	50.0	103%	67 - 138	11C5142	NUC1913-16R E1	03/21/11 18:12
Surrogate: Dibromofluoromethane		49.4		ug/kg	50.0	99%	75 - 125	11C5142	NUC1913-16R E1	03/21/11 18:12
Surrogate: Toluene-d8		55.1		ug/kg	50.0	110%	76 - 129	11C5142	NUC1913-16R E1	03/21/11 18:12
Surrogate: 4-Bromofluorobenzene		60.9		ug/kg	50.0	122%	67 - 147	11C5142	NUC1913-16R E1	03/21/11 18:12
Polyaromatic Hydrocarbons by EPA 8270D										
11C3311-MS1										
Acenaphthene	ND	0.965		mg/kg wet	1.65	59%	42 - 120	11C3311	NUC1127-01	03/15/11 17:13
Acenaphthylene	ND	1.06		mg/kg wet	1.65	64%	32 - 120	11C3311	NUC1127-01	03/15/11 17:13
Anthracene	ND	1.13		mg/kg wet	1.65	69%	10 - 200	11C3311	NUC1127-01	03/15/11 17:13
Benzo (a) anthracene	ND	1.11		mg/kg wet	1.65	67%	41 - 120	11C3311	NUC1127-01	03/15/11 17:13
Benzo (a) pyrene	ND	1.11		mg/kg wet	1.65	67%	33 - 121	11C3311	NUC1127-01	03/15/11 17:13
Benzo (b) fluoranthene	ND	0.970		mg/kg wet	1.65	59%	26 - 137	11C3311	NUC1127-01	03/15/11 17:13

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

PROJECT QUALITY CONTROL DATA
Matrix Spike - Cont.

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D										
11C3311-MS1										
Benzo (g,h,i) perylene	ND	1.01		mg/kg wet	1.65	61%	21 - 124	11C3311	NUC1127-01	03/15/11 17:13
Benzo (k) fluoranthene	ND	1.06		mg/kg wet	1.65	64%	14 - 140	11C3311	NUC1127-01	03/15/11 17:13
Chrysene	ND	1.14		mg/kg wet	1.65	69%	28 - 123	11C3311	NUC1127-01	03/15/11 17:13
Dibenz (a,h) anthracene	ND	1.10		mg/kg wet	1.65	67%	25 - 127	11C3311	NUC1127-01	03/15/11 17:13
Fluoranthene	ND	1.09		mg/kg wet	1.65	66%	38 - 120	11C3311	NUC1127-01	03/15/11 17:13
Fluorene	ND	1.07		mg/kg wet	1.65	65%	41 - 120	11C3311	NUC1127-01	03/15/11 17:13
Indeno (1,2,3-cd) pyrene	ND	1.09		mg/kg wet	1.65	66%	25 - 123	11C3311	NUC1127-01	03/15/11 17:13
Naphthalene	ND	0.914		mg/kg wet	1.65	55%	25 - 120	11C3311	NUC1127-01	03/15/11 17:13
Phenanthrene	ND	1.13		mg/kg wet	1.65	69%	37 - 120	11C3311	NUC1127-01	03/15/11 17:13
Pyrene	ND	1.08		mg/kg wet	1.65	65%	29 - 125	11C3311	NUC1127-01	03/15/11 17:13
1-Methylnaphthalene	ND	0.864		mg/kg wet	1.65	52%	19 - 120	11C3311	NUC1127-01	03/15/11 17:13
2-Methylnaphthalene	ND	0.973		mg/kg wet	1.65	59%	11 - 120	11C3311	NUC1127-01	03/15/11 17:13
Surrogate: Terphenyl-d14		0.876		mg/kg wet	1.65	53%	18 - 120	11C3311	NUC1127-01	03/15/11 17:13
Surrogate: 2-Fluorobiphenyl		0.853		mg/kg wet	1.65	52%	14 - 120	11C3311	NUC1127-01	03/15/11 17:13
Surrogate: Nitrobenzene-d5		0.770		mg/kg wet	1.65	47%	17 - 120	11C3311	NUC1127-01	03/15/11 17:13

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B												
11C4713-MSD1												
Benzene	ND	0.0350		mg/kg wet	0.0432	81%	42 - 141	6	50	11C4713	NUC1513-01R EI	03/18/11 21:03
Ethylbenzene	0.00548	0.0397		mg/kg wet	0.0432	79%	21 - 165	2	50	11C4713	NUC1513-01R EI	03/18/11 21:03
Naphthalene	0.00389	0.0398		mg/kg wet	0.0432	83%	10 - 160	14	50	11C4713	NUC1513-01R EI	03/18/11 21:03
Toluene	ND	0.0376		mg/kg wet	0.0432	87%	45 - 145	3	50	11C4713	NUC1513-01R EI	03/18/11 21:03
Xylenes, total	0.00152	0.116		mg/kg wet	0.130	88%	31 - 159	3	50	11C4713	NUC1513-01R EI	03/18/11 21:03
Surrogate: 1,2-Dichloroethane-d4		50.3		ug/kg	50.0	101%	67 - 138			11C4713	NUC1513-01R EI	03/18/11 21:03
Surrogate: Dibromofluoromethane		49.2		ug/kg	50.0	98%	75 - 125			11C4713	NUC1513-01R EI	03/18/11 21:03
Surrogate: Toluene-d8		51.3		ug/kg	50.0	103%	76 - 129			11C4713	NUC1513-01R EI	03/18/11 21:03
Surrogate: 4-Bromofluorobenzene		51.2		ug/kg	50.0	102%	67 - 147			11C4713	NUC1513-01R EI	03/18/11 21:03
11C5142-MSD1												
Benzene	ND	0.0389		mg/kg wet	0.0446	87%	42 - 141	11	50	11C5142	NUC1913-16R EI	03/21/11 18:43
Ethylbenzene	ND	0.0368		mg/kg wet	0.0446	82%	21 - 165	11	50	11C5142	NUC1913-16R EI	03/21/11 18:43
Naphthalene	ND	0.00954		mg/kg wet	0.0446	21%	10 - 160	15	50	11C5142	NUC1913-16R EI	03/21/11 18:43
Toluene	ND	0.0424		mg/kg wet	0.0446	95%	45 - 145	11	50	11C5142	NUC1913-16R EI	03/21/11 18:43
Xylenes, total	ND	0.107		mg/kg wet	0.134	80%	31 - 159	9	50	11C5142	NUC1913-16R EI	03/21/11 18:43
Surrogate: 1,2-Dichloroethane-d4		50.9		ug/kg	50.0	102%	67 - 138			11C5142	NUC1913-16R EI	03/21/11 18:43
Surrogate: Dibromofluoromethane		50.0		ug/kg	50.0	100%	75 - 125			11C5142	NUC1913-16R EI	03/21/11 18:43
Surrogate: Toluene-d8		54.4		ug/kg	50.0	109%	76 - 129			11C5142	NUC1913-16R EI	03/21/11 18:43
Surrogate: 4-Bromofluorobenzene		58.9		ug/kg	50.0	118%	67 - 147			11C5142	NUC1913-16R EI	03/21/11 18:43
Polyaromatic Hydrocarbons by EPA 8270D												
11C3311-MSD1												
Acenaphthene	ND	0.854		mg/kg wet	1.64	52%	42 - 120	12	40	11C3311	NUC1127-01	03/15/11 17:35
Acenaphthylene	ND	0.928		mg/kg wet	1.64	57%	32 - 120	13	30	11C3311	NUC1127-01	03/15/11 17:35
Anthracene	ND	1.07		mg/kg wet	1.64	65%	10 - 200	6	50	11C3311	NUC1127-01	03/15/11 17:35
Benzo (a) anthracene	ND	0.981		mg/kg wet	1.64	60%	41 - 120	13	30	11C3311	NUC1127-01	03/15/11 17:35
Benzo (a) pyrene	ND	0.978		mg/kg wet	1.64	60%	33 - 121	12	33	11C3311	NUC1127-01	03/15/11 17:35
Benzo (b) fluoranthene	ND	0.982		mg/kg wet	1.64	60%	26 - 137	1	42	11C3311	NUC1127-01	03/15/11 17:35
Benzo (g,h,i) perylene	ND	1.04		mg/kg wet	1.64	63%	21 - 124	3	32	11C3311	NUC1127-01	03/15/11 17:35
Benzo (k) fluoranthene	ND	1.01		mg/kg wet	1.64	61%	14 - 140	5	39	11C3311	NUC1127-01	03/15/11 17:35

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

PROJECT QUALITY CONTROL DATA

Matrix Spike Dup - Cont.

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
Polyaromatic Hydrocarbons by EPA 8270D												
11C3311-MSD1												
Chrysene	ND	1.04		mg/kg wet	1.64	63%	28 - 123	9	34	11C3311	NUC1127-01	03/15/11 17:35
Dibenz (a,h) anthracene	ND	1.04		mg/kg wet	1.64	63%	25 - 127	6	31	11C3311	NUC1127-01	03/15/11 17:35
Fluoranthene	ND	0.948		mg/kg wet	1.64	58%	38 - 120	14	35	11C3311	NUC1127-01	03/15/11 17:35
Fluorene	ND	0.946		mg/kg wet	1.64	58%	41 - 120	13	37	11C3311	NUC1127-01	03/15/11 17:35
Indeno (1,2,3-cd) pyrene	ND	1.01		mg/kg wet	1.64	61%	25 - 123	7	32	11C3311	NUC1127-01	03/15/11 17:35
Naphthalene	ND	0.840		mg/kg wet	1.64	51%	25 - 120	8	42	11C3311	NUC1127-01	03/15/11 17:35
Phenanthrene	ND	1.08		mg/kg wet	1.64	66%	37 - 120	5	32	11C3311	NUC1127-01	03/15/11 17:35
Pyrene	ND	0.954		mg/kg wet	1.64	58%	29 - 125	12	40	11C3311	NUC1127-01	03/15/11 17:35
1-Methylnaphthalene	ND	0.736		mg/kg wet	1.64	45%	19 - 120	16	45	11C3311	NUC1127-01	03/15/11 17:35
2-Methylnaphthalene	ND	0.761		mg/kg wet	1.64	46%	11 - 120	24	50	11C3311	NUC1127-01	03/15/11 17:35
Surrogate: Terphenyl-d14		0.827		mg/kg wet	1.64	50%	18 - 120			11C3311	NUC1127-01	03/15/11 17:35
Surrogate: 2-Fluorobiphenyl		0.827		mg/kg wet	1.64	50%	14 - 120			11C3311	NUC1127-01	03/15/11 17:35
Surrogate: Nitrobenzene-d5		0.756		mg/kg wet	1.64	46%	17 - 120			11C3311	NUC1127-01	03/15/11 17:35

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Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

CERTIFICATION SUMMARY

TestAmerica Nashville

Method	Matrix	AIHA	Nelac	South Carolina
SW846 8260B	Soil	N/A	X	X
SW846 8270D	Soil		X	X
SW-846	Soil			

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	EEG - Small Business Group, Inc. (2449)	Work Order:	NUC2232
	10179 Highway 78	Project Name:	Laurel Bay Housing Project
	Ladson, SC 29456	Project Number:	[none]
Attn	Tom McElwee	Received:	03/12/11 08:30

DATA QUALIFIERS AND DEFINITIONS

CF7	Result may be elevated due to carry over from previously analyzed sample.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
RL1	Reporting limit raised due to sample matrix effects.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

NUC2232
03/28/11 23:59

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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

Client Name/Account #: EEG - SBG # 2449
Address: 10179 Highway 78
City/State/Zip: Ladson, SC 29456
Project Manager: Tom McElwee email: mcelwee@eeginc.net
Telephone Number: 843.412.2097 Fax No.: (843) 879-0401
Sampler Name: (Print) PRATT SHAW
Sampler Signature:

To assist us in using the proper analytical methods, is this work being conducted for regulatory purposes?
Compliance Monitoring? Yes ____ No ____
Enforcement Action? Yes ____ No ____

Site State: SC
PO#: 1027
TA Quote #:
Project ID: Laurel Bay Housing Project
Project #:

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO_3 (Red Label)	HCl (Blue Label) Soil/Methanol	NaOH (Orange Label)	H_2SO_4, Plastic (Yellow Label)	H_2SO_4, Glass (Yellow Label)	None (Black Label)	Other (Specify) Methanol	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX + Napth - 8260B	PAH - 8270D								RUSH TAT (Pre-Scheduled)
394 ACORN-1	3/8/11	1145	5	X					2				2	1					X		X	X								01
394 ACORN-2	3/8/11	1500	5	X					2				2	1					X		X	X							NX2230 -	01
398 ACORN	3/9/11	1345	3	X					2				2	1					X		X	X								02
																			K		X	X								03

Special Instructions:

Method of Shipment: FEDEX

Relinquished by:	Date	Time	Received by:	Date	Time
	3/11/11	0900	Fedex		
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				3.12.11	0830

Laboratory Comments:
Temperature Upon Receipt: 0.6°C
VOCs Free of Headspace? Y

ATTACHMENT A

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. Manifest Doc No.

2. Page 1 of 1

3. Generator's Mailing Address:
MCAS, BEAUFORT
LAUREL BAY HOUSING
BEAUFORT, SC 29907
4. Generator's Phone 843-228-6461

Generator's Site Address (If different than mailing):

A. Manifest Number WMNA 00316808

B. State Generator's ID

5. Transporter 1 Company Name
EEG, INC.

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone 843-879-0411

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
HICKORY HILL LANDFILL
2621 LOW COUNTRY ROAD
RIDGELAND, SC 29936

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 843-987-4643

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. HEATING OIL TANKS FILLED WITH SAND WM Profile # 102655SC		204			
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
UST's FROM HOUSES 2) 394 ACORN - 2 ✓ 4) 1034 FOXGLOVE ✓ 6) 1146 IRIS ✓
1) 224 CYPRESS 3) 398 ACORN ✓ 5) 1081 HEATHER ✓

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 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	Signature "On behalf of"	Month	Day	Year
Charles Herron	Charles Herron	5	11	11

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
JAMES BALDWIN	James Baldwin	5	12	11

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

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	Signature	Month	Day	Year
Toni Cofield	Toni Cofield	5	12	11

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

Appendix C
Laboratory Analytical Report - Initial Groundwater

CDM - AECOM
Multimedia Joint Venture

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LAUREL BAY SAMPLING 7/29/08
Pace Project No.: 9224564

Sample: 392 ACORN E **Lab ID: 9224564018** Collected: 07/29/08 13:25 Received: 07/31/08 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535							
Nitrobenzene-d5 (S)	56	%	50-150	1	08/04/08 00:00	08/13/08 06:00	4165-60-0	
2-Fluorobiphenyl (S)	54	%	50-150	1	08/04/08 00:00	08/13/08 06:00	321-60-8	
Terphenyl-d14 (S)	68	%	50-150	1	08/04/08 00:00	08/13/08 06:00	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/06/08 00:15	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/06/08 00:15	100-41-4	
Naphthalene	ND	ug/L	2.0	1		08/06/08 00:15	91-20-3	
Toluene	**1.1**	ug/L	1.0	1		08/06/08 00:15	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		08/06/08 00:15	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/06/08 00:15	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109	1		08/06/08 00:15	460-00-4	
Dibromofluoromethane (S)	94	%	85-115	1		08/06/08 00:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120	1		08/06/08 00:15	17060-07-0	
Toluene-d8 (S)	101	%	70-120	1		08/06/08 00:15	2037-26-5	

Sample: 398 ACORN A **Lab ID: 9224564019** Collected: 07/29/08 17:00 Received: 07/31/08 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535							
Acenaphthene	**3.8**	ug/L	2.0	1	08/04/08 00:00	08/13/08 06:24	83-32-9	
Acenaphthylene	ND	ug/L	1.5	1	08/04/08 00:00	08/13/08 06:24	208-96-8	
Anthracene	**1.7**	ug/L	0.050	1	08/04/08 00:00	08/13/08 06:24	120-12-7	
Benzo(a)anthracene	**0.16**	ug/L	0.10	1	08/04/08 00:00	08/13/08 06:24	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.30	1	08/04/08 00:00	08/13/08 06:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:24	207-08-9	
Chrysene	**0.14**	ug/L	0.10	1	08/04/08 00:00	08/13/08 06:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:24	53-70-3	
Fluoranthene	**0.75**	ug/L	0.30	1	08/04/08 00:00	08/13/08 06:24	206-44-0	
Fluorene	**7.1**	ug/L	0.31	1	08/04/08 00:00	08/13/08 06:24	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:24	193-39-5	
1-Methylnaphthalene	**90.4**	ug/L	10.0	5	08/04/08 00:00	08/13/08 18:38	90-12-0	
2-Methylnaphthalene	**139**	ug/L	10.0	5	08/04/08 00:00	08/13/08 18:38	91-57-6	
Naphthalene	**39.4**	ug/L	1.5	1	08/04/08 00:00	08/13/08 06:24	91-20-3	
Phenanthrene	**13.2**	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:24	85-01-8	
Pyrene	**0.58**	ug/L	0.10	1	08/04/08 00:00	08/13/08 06:24	129-00-0	
Nitrobenzene-d5 (S)	51	%	50-150	1	08/04/08 00:00	08/13/08 06:24	4165-60-0	
2-Fluorobiphenyl (S)	64	%	50-150	1	08/04/08 00:00	08/13/08 06:24	321-60-8	
Terphenyl-d14 (S)	84	%	50-150	1	08/04/08 00:00	08/13/08 06:24	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	**1.8**	ug/L	1.0	1		08/06/08 00:39	71-43-2	

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: LAUREL BAY SAMPLING 7/29/08
Pace Project No.: 9224564

Sample: 398 ACORN A **Lab ID: 9224564019** Collected: 07/29/08 17:00 Received: 07/31/08 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Ethylbenzene	**7.3**	ug/L	1.0	1		08/06/08 00:39	100-41-4	
Naphthalene	**71.1**	ug/L	2.0	1		08/06/08 00:39	91-20-3	
Toluene	ND	ug/L	1.0	1		08/06/08 00:39	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		08/06/08 00:39	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/06/08 00:39	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109	1		08/06/08 00:39	460-00-4	
Dibromofluoromethane (S)	95	%	85-115	1		08/06/08 00:39	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120	1		08/06/08 00:39	17060-07-0	
Toluene-d8 (S)	102	%	70-120	1		08/06/08 00:39	2037-26-5	

Sample: 230 CYPRESS A **Lab ID: 9224564020** Collected: 07/29/08 17:20 Received: 07/31/08 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM SPE	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3535							
Acenaphthene	ND	ug/L	2.0	1	08/04/08 00:00	08/13/08 06:47	83-32-9	
Acenaphthylene	ND	ug/L	1.5	1	08/04/08 00:00	08/13/08 06:47	208-96-8	
Anthracene	ND	ug/L	0.050	1	08/04/08 00:00	08/13/08 06:47	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	08/04/08 00:00	08/13/08 06:47	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.30	1	08/04/08 00:00	08/13/08 06:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:47	207-08-9	
Chrysene	ND	ug/L	0.10	1	08/04/08 00:00	08/13/08 06:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:47	53-70-3	
Fluoranthene	ND	ug/L	0.30	1	08/04/08 00:00	08/13/08 06:47	206-44-0	
Fluorene	ND	ug/L	0.31	1	08/04/08 00:00	08/13/08 06:47	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:47	193-39-5	
1-Methylnaphthalene	ND	ug/L	2.0	1	08/04/08 00:00	08/13/08 06:47	90-12-0	
2-Methylnaphthalene	ND	ug/L	2.0	1	08/04/08 00:00	08/13/08 06:47	91-57-6	
Naphthalene	ND	ug/L	1.5	1	08/04/08 00:00	08/13/08 06:47	91-20-3	
Phenanthrene	ND	ug/L	0.20	1	08/04/08 00:00	08/13/08 06:47	85-01-8	
Pyrene	ND	ug/L	0.10	1	08/04/08 00:00	08/13/08 06:47	129-00-0	
Nitrobenzene-d5 (S)	47	%	50-150	1	08/04/08 00:00	08/13/08 06:47	4165-60-0	1g
2-Fluorobiphenyl (S)	62	%	50-150	1	08/04/08 00:00	08/13/08 06:47	321-60-8	
Terphenyl-d14 (S)	95	%	50-150	1	08/04/08 00:00	08/13/08 06:47	1718-51-0	
8260 MSV Low Level	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		08/06/08 16:04	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		08/06/08 16:04	100-41-4	
Naphthalene	ND	ug/L	2.0	1		08/06/08 16:04	91-20-3	
Toluene	ND	ug/L	1.0	1		08/06/08 16:04	108-88-3	
m&p-Xylene	ND	ug/L	2.0	1		08/06/08 16:04	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		08/06/08 16:04	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109	1		08/06/08 16:04	460-00-4	

Appendix D
Analytical Data – Permanent Well Groundwater

CDM - AECOM
Multimedia Joint Venture

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

		398 Acorn Drive			
LOCATION	South Carolina	LBMW104	LBMW105	LBMW105	LBMW106
SAMPLE ID	State Screening	BEA-LB398GW1040210	BEA-LB398GW1050210	BEA-LB398GW1050210-D	BEA-LB398GW1060210
SAMPLE DATE	Values[1]	20100225	20100225	20100225	20100225
PAHS (UG/L)					
1-METHYLNAPHTHALENE	10	0.606 U	0.536 U	0.566 U	**14.2**
2-METHYLNAPHTHALENE	10	0.606 U	0.536 U	0.566 U	**16.8**
ACENAPHTHENE	NC	0.626 U	0.554 U	0.584 U	0.758 J
ACENAPHTHYLENE	NC	0.404 U	0.358 U	0.378 U	0.378 U
ANTHRACENE	NC	0.404 U	0.358 U	0.378 U	0.378 U
BENZO(A)ANTHRACENE	10	0.404 U	0.358 U	0.378 U	0.378 U
BENZO(A)PYRENE	10	0.404 U	0.358 U	0.378 U	0.378 U
BENZO(B)FLUORANTHENE	10	0.404 U	0.358 U	0.378 U	0.378 U
BENZO(G,H,I)PERYLENE	NC	0.404 U	0.358 U	0.378 U	0.378 U
BENZO(K)FLUORANTHENE	10	0.404 U	0.358 U	0.378 U	0.378 U
CHRYSENE	10	0.404 U	0.358 U	0.378 U	0.378 U
DIBENZO(A,H)ANTHRACENE	10	0.404 U	0.358 U	0.378 U	0.378 U
FLUORANTHENE	NC	0.404 U	0.358 U	0.378 U	0.378 U
FLUORENE	NC	0.404 U	0.358 U	0.378 U	1.09
INDENO(1,2,3-CD)PYRENE	NC	0.404 U	0.358 U	0.378 U	0.378 U
PHENANTHRENE	NC	0.404 U	0.358 U	0.378 U	0.546 J
PYRENE	NC	0.606 U	0.536 U	0.566 U	0.566 U
VOCS (UG/L)					
BENZENE	5	0.6 U	0.6 U	0.6 U	2.61
ETHYLBENZENE	700	0.5 U	0.5 U	0.5 U	5.66
METHYL TERT-BUTYL ETHER[2]	40				
NAPHTHALENE	25	0.5 U	0.5 U	0.5 U	**29.9**
TOLUENE	1000	0.5 U	0.5 U	0.5 U	0.5 U
TOTAL XYLENES	10000	0.6 U	0.6 U	0.6 U	1.8

Appendix E
Historical Groundwater Analytical Results

CDM - AECOM
Multimedia Joint Venture

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

Parameter	Criteria [1]	398 ACORN		
		LBMW104 BEALB-398-GW-MW104-1011 20111028 GW	LBMW105 BEALB-398-GW-MW105-1011 20111028 GW	LBMW106 BEALB-398-GW-MW106-1011 20111028 GW
POLYNUCLEAR AROMATIC HYDROCARBONS (UG/L)				
1-METHYLNAPHTHALENE	10	0.55 U	0.5 U	**21**
2-METHYLNAPHTHALENE	10	0.55 U	0.5 U	**17**
ACENAPHTHENE	NC	0.55 U	0.5 U	**1.1**
ACENAPHTHYLENE	NC	2.7 U	2.6 U	2.6 U
ANTHRACENE	NC	0.55 U	0.5 U	0.5 U
BENZO(A)ANTHRACENE	10	0.55 U	0.5 U	0.5 U
BENZO(A)PYRENE	10	2.7 U	2.6 U	2.6 U
BENZO(B)FLUORANTHENE	10	0.55 U	0.5 U	0.5 U
BENZO(G,H,I)PERYLENE	NC	2.7 U	**0.12 J**	2.6 U
BENZO(K)FLUORANTHENE	10	0.55 U	0.5 U	0.5 U
CHRYSENE	10	0.55 U	0.5 U	0.5 U
DIBENZO(A,H)ANTHRACENE	10	2.7 U	2.6 U	2.6 U
FLUORANTHENE	NC	0.55 U	0.5 U	0.5 U
FLUORENE	NC	2.7 U	2.6 U	**1.3 J**
INDENO(1,2,3-CD)PYRENE	NC	0.55 U	0.5 U	0.5 U
NAPHTHALENE	25	2.7 U	2.6 U	**15**
PHENANTHRENE	NC	2.7 U	2.6 U	**0.47 J**
PYRENE	NC	0.55 U	0.5 U	0.5 U
VOLATILES (UG/L)				
BENZENE	5	0.15 UJ	0.15 UJ	**2.6 J**
ETHYLBENZENE	700	0.17 U	0.17 U	**1.8 J**
NAPHTHALENE	25	**0.38 J**	**0.68 J**	**27**
TOLUENE	1000	0.16 U	0.16 U	0.16 U
TOTAL XYLENES	10000	0.19 U	0.19 U	0.19 U

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

Parameter	Criteria [1]	388 ACORN		
		LBMW110 BEALB-388-GW-MW-110-1011 20111028 GW	LBMW111 BEALB-388-GW-MW111-1016 20111031 GW	LBMW112 BEALB-388-GW-MW112-1011 20111031 GW
POLYNUCLEAR AROMATIC HYDROCARBONS (UG/L)				
1-METHYLNAPHTHALENE	10	**36**	**0.095 J**	0.5 U
2-METHYLNAPHTHALENE	10	**44**	0.5 U	0.5 U
ACENAPHTHENE	NC	**1.6**	0.5 U	**0.85 J**
ACENAPHTHYLENE	NC	2.6 U	2.6 U	2.6 U
ANTHRACENE	NC	0.5 U	0.5 U	0.5 U
BENZO(A)ANTHRACENE	10	0.5 U	0.5 U	0.5 U
BENZO(A)PYRENE	10	2.6 U	2.6 U	2.6 U
BENZO(B)FLUORANTHENE	10	0.5 U	0.5 U	0.5 U
BENZO(G,H,I)PERYLENE	NC	2.6 U	2.6 U	**0.15 J**
BENZO(K)FLUORANTHENE	10	0.5 U	0.5 U	0.5 U
CHRYSENE	10	0.5 U	0.5 U	0.5 U
DIBENZO(A,H)ANTHRACENE	10	2.6 U	2.6 U	2.6 U
FLUORANTHENE	NC	0.5 U	0.5 U	0.5 U
FLUORENE	NC	**2.9 J**	2.6 U	**0.31 J**
INDENO(1,2,3-CD)PYRENE	NC	0.5 U	0.5 U	0.5 U
NAPHTHALENE	25	**26**	**0.2 J**	**3.9 J**
PHENANTHRENE	NC	**3 J**	2.6 U	2.6 U
PYRENE	NC	0.5 U	0.5 U	0.5 U
VOLATILES (UG/L)				
BENZENE	5	**0.28 J**	0.15 UJ	0.15 UJ
ETHYLBENZENE	700	**21**	0.17 U	0.17 U
NAPHTHALENE	25	**56**	**0.38 J**	**5.7**
TOLUENE	1000	0.16 U	0.16 U	0.16 U
TOTAL XYLENES	10000	**33**	0.19 U	0.19 U

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

Parameter	Criteria [1]	391 ACORN			
		LBMW113 BEALB-391-GW-MW113-1011 20111031 GW	LBMW114 BEALB-391-GW-MW114-1011 20111031 GW	LBMW115 BEALB-391-GW-MW115-1011 20111031 GW	LBMW116 BEALB-391-GW-MW116-1011 20111031 GW
POLYNUCLEAR AROMATIC HYDROCARBONS (UG/L)					
1-METHYLNAPHTHALENE	10	0.5 U	0.5 U	0.55 U	**0.42 J**
2-METHYLNAPHTHALENE	10	0.5 U	0.5 U	0.55 U	**0.2 J**
ACENAPHTHENE	NC	**1.7**	**3.9**	0.55 U	**8.1**
ACENAPHTHYLENE	NC	2.6 U	2.6 U	2.7 U	**0.21 J**
ANTHRACENE	NC	0.5 U	**0.16 J**	0.55 U	**0.42 J**
BENZO(A)ANTHRACENE	10	0.5 U	0.5 U	0.55 U	0.5 U
BENZO(A)PYRENE	10	2.6 U	2.6 U	**0.15 J**	2.6 U
BENZO(B)FLUORANTHENE	10	0.5 U	0.5 U	0.55 U	0.5 U
BENZO(G,H,I)PERYLENE	NC	2.6 U	2.6 U	2.7 U	**0.086 J**
BENZO(K)FLUORANTHENE	10	0.5 U	0.5 U	0.55 U	0.5 U
CHRYSENE	10	0.5 U	0.5 U	0.55 U	0.5 U
DIBENZO(A,H)ANTHRACENE	10	2.6 U	2.6 U	2.7 U	2.6 U
FLUORANTHENE	NC	**0.2 J**	**0.49 J**	0.55 U	**0.84 J**
FLUORENE	NC	**0.32 J**	**2.2 J**	2.7 U	**5.4**
INDENO(1,2,3-CD)PYRENE	NC	0.5 U	0.5 U	0.55 U	0.5 U
NAPHTHALENE	25	2.6 U	**0.52 J**	**0.47 J**	**18**
PHENANTHRENE	NC	2.6 U	2.6 U	2.7 U	**1.4 J**
PYRENE	NC	**0.15 J**	**0.3 J**	0.55 U	**0.41 J**
VOLATILES (UG/L)					
BENZENE	5	0.15 UJ	0.15 UJ	0.15 UJ	0.15 UJ
ETHYLBENZENE	700	0.17 U	0.17 U	0.17 U	0.17 U
NAPHTHALENE	25	0.32 U	**0.97 J**	**1.2 J**	**33**
TOLUENE	1000	0.16 U	0.16 U	0.16 U	0.16 U
TOTAL XYLENES	10000	0.19 U	0.19 U	0.19 U	0.19 U

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

Parameter	Criteria [1]	282 BIRCH			
		LBMW136 BEALB-282-GW-MW136-1111 20111115 GW	LBMW137 BEALB-282-GW-MW137-1111 20111116 GW	LBMW138 BEALB-282-GW-MW138-1111 20111117 GW	LBMW139 BEALB-282-GW-MW139-1111 20111115 GW
POLYNUCLEAR AROMATIC HYDROCARBONS (UG/L)					
1-METHYLNAPHTHALENE	10	**49**	0.55 U	0.55 U	**0.44 J**
2-METHYLNAPHTHALENE	10	**67**	0.55 U	0.55 U	0.55 U
ACENAPHTHENE	NC	**2.6**	0.55 U	**0.29 J**	**0.27 J**
ACENAPHTHYLENE	NC	2.6 U	2.7 U	2.7 U	2.7 U
ANTHRACENE	NC	0.5 U	0.55 U	0.55 U	0.55 U
BENZO(A)ANTHRACENE	10	0.5 U	0.55 U	0.55 U	0.55 U
BENZO(A)PYRENE	10	2.6 U	2.7 U	2.7 U	2.7 U
BENZO(B)FLUORANTHENE	10	0.5 U	0.55 U	0.55 U	0.55 U
BENZO(G,H,I)PERYLENE	NC	2.6 U	2.7 U	2.7 U	2.7 U
BENZO(K)FLUORANTHENE	10	0.5 U	0.55 U	0.55 U	0.55 U
CHRYSENE	10	0.5 U	0.55 U	0.55 U	0.55 U
DIBENZO(A,H)ANTHRACENE	10	2.6 U	2.7 U	2.7 U	2.7 U
FLUORANTHENE	NC	0.5 U	0.55 U	0.55 U	0.55 U
FLUORENE	NC	**5.7**	2.7 U	**0.44 J**	**0.56 J**
INDENO(1,2,3-CD)PYRENE	NC	0.5 U	0.55 U	0.55 U	0.55 U
NAPHTHALENE	25	**38**	2.7 U	2.7 U	**0.44 J**
PHENANTHRENE	NC	**3.6 J**	2.7 U	2.7 U	2.7 U
PYRENE	NC	0.5 U	0.55 U	0.55 U	0.55 U
VOLATILES (UG/L)					
BENZENE	5	**2.4 J**	2.5 U	2.5 U	2.5 U
ETHYLBENZENE	700	**17**	2.5 U	2.5 U	2.5 U
NAPHTHALENE	25	**120**	2.5 U	2.5 U	2.5 UJ
TOLUENE	1000	**0.33 J**	2.5 U	2.5 U	2.5 U
TOTAL XYLENES	10000	**14**	2.5 U	2.5 U	2.5 U

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

Parameter	Criteria [1]	441 ELDERBERRY			
		LBMW117	LBMW118	LBMW119	
		BEALB-441-GW-MW117-1111	BEALB-441-GW-MW118-1111	BEALB-441-GW-MW119-1111	BEALB-441-GW-MW119-1111-D
		20111109	20111109	20111109	20111109
		GW	GW	GW	GW
POLYNUCLEAR AROMATIC HYDROCARBONS (UG/L)					
1-METHYLNAPHTHALENE	10	**0.78 J**	**8.3 J**	**3**	**3.3**
2-METHYLNAPHTHALENE	10	**1.3**	**2.9 J**	**1.9**	**2**
ACENAPHTHENE	NC	0.5 U	0.5 UJ	**0.58 J**	**0.53 J**
ACENAPHTHYLENE	NC	2.6 U	2.6 UJ	2.6 U	2.6 U
ANTHRACENE	NC	0.5 U	0.5 UJ	0.5 U	0.5 U
BENZO(A)ANTHRACENE	10	0.5 U	0.5 UJ	0.5 U	0.5 U
BENZO(A)PYRENE	10	2.6 U	2.6 UJ	2.6 U	2.6 U
BENZO(B)FLUORANTHENE	10	0.5 U	0.5 UJ	0.5 U	0.5 U
BENZO(G,H,I)PERYLENE	NC	2.6 U	2.6 UJ	2.6 U	2.6 U
BENZO(K)FLUORANTHENE	10	0.5 U	0.5 UJ	0.5 U	0.5 U
CHRYSENE	10	0.5 U	0.5 UJ	0.5 U	0.5 U
DIBENZO(A,H)ANTHRACENE	10	2.6 U	2.6 UJ	2.6 U	2.6 U
FLUORANTHENE	NC	0.5 U	0.5 UJ	0.5 U	0.5 U
FLUORENE	NC	**0.28 J**	**0.97 J**	**1.1 J**	**1 J**
INDENO(1,2,3-CD)PYRENE	NC	0.5 U	0.5 UJ	0.5 U	0.5 U
NAPHTHALENE	25	2.6 U	**5.2 J**	**3.8 J**	**4.2 J**
PHENANTHRENE	NC	2.6 U	**0.58 J**	2.6 U	2.6 U
PYRENE	NC	0.5 U	0.5 UJ	0.5 U	0.5 U
VOLATILES (UG/L)					
BENZENE	5	2.5 U	2.5 U	2.5 U	2.5 U
ETHYLBENZENE	700	2.5 U	**0.88 J**	**0.41 J**	**0.42 J**
NAPHTHALENE	25	2.5 U	**13**	**5**	**5.3**
TOLUENE	1000	2.5 U	2.5 U	2.5 U	2.5 U
TOTAL XYLENES	10000	2.5 U	2.5 U	2.5 U	2.5 U

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

Parameter	Criteria [1]	437 ELDERBERRY		
		LBMW133 BEALB-437-GW-MW133-1111 20111114 GW	LBMW134 BEALB-437-GW-MW134-1111 20111115 GW	LBMW135 BEALB-437-GW-MW135-1111 20111115 GW
POLYNUCLEAR AROMATIC HYDROCARBONS (UG/L)				
1-METHYLNAPHTHALENE	10	**45**	**3.3**	**0.27 J**
2-METHYLNAPHTHALENE	10	**72**	**4.1**	**0.84 J**
ACENAPHTHENE	NC	**1.9**	0.55 U	0.55 U
ACENAPHTHYLENE	NC	2.6 U	2.7 U	2.7 U
ANTHRACENE	NC	0.5 U	0.55 U	0.55 U
BENZO(A)ANTHRACENE	10	0.5 U	0.55 U	0.55 U
BENZO(A)PYRENE	10	2.6 U	2.7 U	2.7 U
BENZO(B)FLUORANTHENE	10	0.5 U	0.55 U	0.55 U
BENZO(G,H,I)PERYLENE	NC	2.6 U	2.7 U	2.7 U
BENZO(K)FLUORANTHENE	10	0.5 U	0.55 U	0.55 U
CHRYSENE	10	0.5 U	0.55 U	0.55 U
DIBENZO(A,H)ANTHRACENE	10	2.6 U	2.7 U	2.7 U
FLUORANTHENE	NC	0.5 U	0.55 U	0.55 U
FLUORENE	NC	**3.2 J**	**0.33 J**	2.7 U
INDENO(1,2,3-CD)PYRENE	NC	0.5 U	0.55 U	0.55 U
NAPHTHALENE	25	**30**	**1.8 J**	**0.2 J**
PHENANTHRENE	NC	**3.2 J**	2.7 U	**0.24 J**
PYRENE	NC	0.5 U	0.55 U	0.55 U
VOLATILES (UG/L)				
BENZENE	5	**0.33 J**	2.5 U	2.5 U
ETHYLBENZENE	700	**5.2**	2.5 U	2.5 U
NAPHTHALENE	25	**63 J**	2.5 UJ	2.5 UJ
TOLUENE	1000	**0.17 J**	2.5 U	2.5 U
TOTAL XYLENES	10000	**13**	2.5 U	2.5 U

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

Parameter	Criteria [1]	437 ELDERBERRY		
		LBMW140 BEALB-437-GW-MW140-1111 20111115 GW	LBMW141 BEALB-437-GW-MW141-1111 20111116 GW	LBMW142 BEALB-437-GW-MW142-1111 20111116 GW
POLYNUCLEAR AROMATIC HYDROCARBONS (UG/L)				
1-METHYLNAPHTHALENE	10	0.55 U	0.55 U	**0.12 J**
2-METHYLNAPHTHALENE	10	0.55 U	0.55 U	0.55 U
ACENAPHTHENE	NC	0.55 U	0.55 U	0.55 U
ACENAPHTHYLENE	NC	2.7 U	2.7 U	2.7 U
ANTHRACENE	NC	0.55 U	0.55 U	0.55 U
BENZO(A)ANTHRACENE	10	0.55 U	0.55 U	0.55 U
BENZO(A)PYRENE	10	2.7 U	2.7 U	2.7 U
BENZO(B)FLUORANTHENE	10	0.55 U	0.55 U	0.55 U
BENZO(G,H,I)PERYLENE	NC	2.7 U	2.7 U	2.7 U
BENZO(K)FLUORANTHENE	10	0.55 U	0.55 U	0.55 U
CHRYSENE	10	0.55 U	0.55 U	0.55 U
DIBENZO(A,H)ANTHRACENE	10	2.7 U	2.7 U	2.7 U
FLUORANTHENE	NC	0.55 U	0.55 U	0.55 U
FLUORENE	NC	2.7 U	2.7 U	2.7 U
INDENO(1,2,3-CD)PYRENE	NC	0.55 U	0.55 U	0.55 U
NAPHTHALENE	25	2.7 U	2.7 U	2.7 U
PHENANTHRENE	NC	2.7 U	2.7 U	2.7 U
PYRENE	NC	0.55 U	0.55 U	0.55 U
VOLATILES (UG/L)				
BENZENE	5	2.5 U	2.5 U	2.5 U
ETHYLBENZENE	700	2.5 U	2.5 U	2.5 U
NAPHTHALENE	25	2.5 UJ	2.5 U	2.5 U
TOLUENE	1000	2.5 U	2.5 U	2.5 U
TOTAL XYLENES	10000	2.5 U	2.5 U	2.5 U

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

Parameter	Criteria [1]	1054 GARDENIA			
		1054-DMW-1 BEALB-1054-GW-DMW-1-1111 20111108 GW	1054-MW-2 BEALB-1054-GW-MW-2-1111 20111108 GW	1054-MW-4 BEALB-1054-GW-MW4-1111 20111109 GW	1054-MW-7 BEALB-1054-GW-MW-7-1111 20111108 GW
POLYNUCLEAR AROMATIC HYDROCARBONS (UG/L)					
1-METHYLNAPHTHALENE	10	0.5 U	0.5 U	0.5 U	0.55 U
2-METHYLNAPHTHALENE	10	0.5 U	0.5 U	0.5 U	0.55 U
ACENAPHTHENE	NC	0.5 U	0.5 U	0.5 U	0.55 U
ACENAPHTHYLENE	NC	2.6 U	**0.33 J**	2.6 U	2.7 U
ANTHRACENE	NC	0.5 U	0.5 U	0.5 U	0.55 U
BENZO(A)ANTHRACENE	10	0.5 U	0.5 U	0.5 U	0.55 U
BENZO(A)PYRENE	10	2.6 U	2.6 U	2.6 U	2.7 U
BENZO(B)FLUORANTHENE	10	0.5 U	0.5 U	0.5 U	0.55 U
BENZO(G,H,I)PERYLENE	NC	2.6 U	2.6 U	2.6 U	2.7 U
BENZO(K)FLUORANTHENE	10	0.5 U	0.5 U	0.5 U	0.55 U
CHRYSENE	10	0.5 U	0.5 U	0.5 U	0.55 U
DIBENZO(A,H)ANTHRACENE	10	2.6 U	2.6 U	2.6 U	2.7 U
FLUORANTHENE	NC	0.5 U	0.5 U	0.5 U	0.55 U
FLUORENE	NC	2.6 U	2.6 U	2.6 U	2.7 U
INDENO(1,2,3-CD)PYRENE	NC	0.5 U	0.5 U	0.5 U	0.55 U
NAPHTHALENE	25	2.6 U	**0.4 J**	2.6 U	2.7 U
PHENANTHRENE	NC	2.6 U	2.6 U	2.6 U	2.7 U
PYRENE	NC	0.5 U	0.5 U	0.5 U	0.55 U
VOLATILES (UG/L)					
BENZENE	5	2.5 U	2.5 U	2.5 U	2.5 U
ETHYLBENZENE	700	2.5 U	2.5 U	2.5 U	2.5 U
NAPHTHALENE	25	2.5 U	**1.5 J**	2.5 U	2.5 U
TOLUENE	1000	2.5 U	2.5 U	2.5 U	**0.17 J**
TOTAL XYLENES	10000	2.5 U	2.5 U	2.5 U	2.5 U

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

Parameter	Criteria [1]	1054 GARDENIA			
		LBMW127	LBMW128		LBMW129
		BEALB-1054-MW127-1111	BEALB-1054-GW-MW128-1111	BEALB-1054-GW-MW128-1111-D	BEALB-1054-GW-MW129
		20111107	20111107	20111107	20111108
		GW	GW	GW	GW
POLYNUCLEAR AROMATIC HYDROCARBONS (UG/L)					
1-METHYLNAPHTHALENE	10	**23**	**26**	**25**	**50**
2-METHYLNAPHTHALENE	10	**15**	**19**	**19**	**62**
ACENAPHTHENE	NC	**1.5**	**1.2**	**1.3**	**2.2**
ACENAPHTHYLENE	NC	2.6 U	2.6 U	2.6 U	2.6 U
ANTHRACENE	NC	0.5 U	0.5 U	0.5 U	0.5 U
BENZO(A)ANTHRACENE	10	0.5 U	0.5 U	0.5 U	0.5 U
BENZO(A)PYRENE	10	2.6 U	2.6 U	2.6 U	2.6 U
BENZO(B)FLUORANTHENE	10	0.5 U	0.5 U	0.5 U	0.5 U
BENZO(G,H,I)PERYLENE	NC	2.6 U	2.6 U	**0.29 J**	**0.14 J**
BENZO(K)FLUORANTHENE	10	0.5 U	0.5 U	0.5 U	0.5 U
CHRYSENE	10	0.5 U	0.5 U	0.5 U	0.5 U
DIBENZO(A,H)ANTHRACENE	10	2.6 U	2.6 U	2.6 U	2.6 U
FLUORANTHENE	NC	0.5 U	0.5 U	0.5 U	**0.14 J**
FLUORENE	NC	**2.4 J**	**2.3 J**	**2.3 J**	**3.9 J**
INDENO(1,2,3-CD)PYRENE	NC	0.5 U	0.5 U	**0.15 J**	0.5 U
NAPHTHALENE	25	**7.7**	**14**	**14**	**30**
PHENANTHRENE	NC	**2.4 J**	**1.2 J**	**1.3 J**	**3.4 J**
PYRENE	NC	0.5 U	0.5 U	0.5 U	**0.1 J**
VOLATILES (UG/L)					
BENZENE	5	2.5 U	2.5 U	2.5 U	**0.28 J**
ETHYLBENZENE	700	**3.8 J**	**5.8**	**4.9 J**	**17**
NAPHTHALENE	25	**18**	**43**	**36**	**77**
TOLUENE	1000	2.5 U	2.5 U	2.5 U	**1 J**
TOTAL XYLENES	10000	**1.6 J**	**4.1 J**	**3.2 J**	**26**

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

Parameter	Criteria [1]	1472 CARDINAL			
		LBMW130		LBMW131	LBMW132
		BEALB-1472-GW-MW130-1111	BEALB-1472-GW-MW130-1111-D	BEALB-1472-GW-MW131-1111	BEALB-1472-GW-MW132-1111
		20111110	20111110	20111110	20111115
		GW	GW	GW	GW
POLYNUCLEAR AROMATIC HYDROCARBONS (UG/L)					
1-METHYLNAPHTHALENE	10	**20**	**21**	0.5 U	0.55 U
2-METHYLNAPHTHALENE	10	**29**	**30**	0.5 U	0.55 U
ACENAPHTHENE	NC	**0.92 J**	**0.97 J**	0.5 U	0.55 U
ACENAPHTHYLENE	NC	2.6 U	2.5 U	2.6 U	2.7 U
ANTHRACENE	NC	0.5 U	0.5 U	0.5 U	0.55 U
BENZO(A)ANTHRACENE	10	0.5 U	0.5 U	0.5 U	0.55 U
BENZO(A)PYRENE	10	2.6 U	2.5 U	2.6 U	2.7 U
BENZO(B)FLUORANTHENE	10	0.5 U	0.5 U	0.5 U	0.55 U
BENZO(G,H,I)PERYLENE	NC	2.6 U	2.5 U	2.6 U	2.7 U
BENZO(K)FLUORANTHENE	10	0.5 U	0.5 U	0.5 U	0.55 U
CHRYSENE	10	0.5 U	0.5 U	0.5 U	0.55 U
DIBENZO(A,H)ANTHRACENE	10	2.6 U	2.5 U	2.6 U	2.7 U
FLUORANTHENE	NC	0.5 U	0.5 U	0.5 U	0.55 U
FLUORENE	NC	**1.7 J**	**1.8 J**	2.6 U	2.7 U
INDENO(1,2,3-CD)PYRENE	NC	0.5 U	0.5 U	0.5 U	0.55 U
NAPHTHALENE	25	**24**	**25**	2.6 U	2.7 U
PHENANTHRENE	NC	**0.89 J**	**1.1 J**	2.6 U	2.7 U
PYRENE	NC	0.5 U	0.5 U	0.5 U	0.55 U
VOLATILES (UG/L)					
BENZENE	5	**2.8 J**	**3.3 J**	2.5 U	2.5 U
ETHYLBENZENE	700	**14**	**15**	2.5 U	2.5 U
NAPHTHALENE	25	**56 J**	**83 J**	2.5 U	2.5 UJ
TOLUENE	1000	**0.36 J**	**0.32 J**	**0.18 J**	2.5 U
TOTAL XYLENES	10000	**15**	**15**	2.5 U	2.5 U

TABLE 4-1

SUMMARY OF ANALYTICAL RESULTS FOR GROUNDWATER
REPORT OF FINDINGS - LAUREL BAY MILITARY HOUSING
MCAS BEAUFORT, SOUTH CAROLINA

Parameter	Criteria [1]	1472 CARDINAL			
		LBMW143		LBMW144	LBMW145
		BEALB-1472-GW-MW143-1111	BEALB-1472-GW-MW143-1111-D	BEALB-1472-GW-MW144-1111	BEALB-1472-GW-MW145-1111
		20111114	20111114	20111114	20111114
		GW	GW	GW	GW
POLYNUCLEAR AROMATIC HYDROCARBONS (UG/L)					
1-METHYLNAPHTHALENE	10	0.55 U	0.55 U	0.5 U	0.55 U
2-METHYLNAPHTHALENE	10	0.55 U	0.55 U	0.5 U	0.55 U
ACENAPHTHENE	NC	0.55 U	0.55 U	**0.3 J**	0.55 U
ACENAPHTHYLENE	NC	2.7 UJ	2.7 UJ	2.6 U	2.7 U
ANTHRACENE	NC	0.55 U	0.55 U	0.5 U	0.55 U
BENZO(A)ANTHRACENE	10	0.55 U	0.55 U	0.5 U	0.55 U
BENZO(A)PYRENE	10	2.7 U	2.7 U	2.6 U	2.7 U
BENZO(B)FLUORANTHENE	10	0.55 U	0.55 U	0.5 U	0.55 U
BENZO(G,H,I)PERYLENE	NC	2.7 U	2.7 U	2.6 U	2.7 U
BENZO(K)FLUORANTHENE	10	0.55 U	0.55 U	0.5 U	0.55 U
CHRYSENE	10	0.55 U	0.55 U	0.5 U	0.55 U
DIBENZO(A,H)ANTHRACENE	10	2.7 U	2.7 U	2.6 U	2.7 U
FLUORANTHENE	NC	0.55 U	0.55 U	0.5 U	0.55 U
FLUORENE	NC	2.7 U	2.7 U	**0.7 J**	2.7 U
INDENO(1,2,3-CD)PYRENE	NC	0.55 U	0.55 U	0.5 U	0.55 U
NAPHTHALENE	25	2.7 U	2.7 U	2.6 U	2.7 U
PHENANTHRENE	NC	2.7 U	2.7 U	2.6 U	2.7 U
PYRENE	NC	0.55 U	0.55 U	0.5 U	0.55 U
VOLATILES (UG/L)					
BENZENE	5	2.5 U	2.5 U	2.5 U	2.5 U
ETHYLBENZENE	700	2.5 U	2.5 U	2.5 U	2.5 U
NAPHTHALENE	25	2.5 UJ	2.5 UJ	2.5 UJ	**13 J**
TOLUENE	1000	2.5 U	2.5 U	2.5 U	2.5 U
TOTAL XYLENES	10000	2.5 U	2.5 U	2.5 U	2.5 U

NOTES:
(1)South Carolina State Screening Value are Risk Based Screening Levels (RBSLs) for groundwater (SCDHEC, 2011).
All positive results have been bolded.
Shaded values indicate exceedance of criteria.
NC = No Criteria Available.

DATA QUALIFIERS:
U = Indicates the parameter was not detected.
UJ = Indicates the parameter was not detected; however, the detection limit is estimated.
J = Indicates the result is estimated.

Table 4
Summary of Analytical Results
Laurel Bay Military Housing Area
MCAS Beaufort, South Carolina

LBMH Area Address		282 Birch Drive		282 Birch Drive	282 Birch Drive	282 Birch Drive
Well ID		MW136		MW137	MW138	MW139
Sample ID	SCDHEC	BEALB282MW136WG20130730		BEALB282MW137WG20130730	BEALB282MW138WG20130730	BEALB282MW139WG20130730
Lab Sample ID	RBSL[1]	OG30003-016		OG30003-014	OG30003-015	OG30003-017
Date Collected		07/30/13		07/30/13	07/30/13	07/30/13
Volatile Organic Compounds by Method 8260B (µg/L)						
Benzene	5	**0.41**	J/	< 0.25	< 0.25	< 0.25
Ethylbenzene	700	**1.2**		< 0.25	< 0.25	< 0.25
Naphthalene	25	**57**		< 0.25	< 0.25	**0.41** J/
Toluene	1,000	< 0.25		< 0.25	< 0.25	< 0.25
Xylenes, Total	10,000	< 0.25		< 0.25	< 0.25	< 0.25
Semivolatile Organic Compounds by Method 8270D (µg/L)						
Benzo(a)anthracene	10	< 0.11		< 0.10	< 0.10	< 0.10
Benzo(b)fluoranthene	10	< 0.11		< 0.10	< 0.10	< 0.10
Benzo(k)fluoranthene	10	< 0.11		< 0.10	< 0.10	< 0.10
Chrysene	10	< 0.11		< 0.10	< 0.10	< 0.10
Dibenz(a,h)anthracene	10	< 0.11		< 0.10	< 0.10	< 0.10

LBMH Area Address		388 Acorn Drive		388 Acorn Drive	388 Acorn Drive	388 Acorn Drive
Well ID		MW110		MW110-C	MW111	MW112
Sample ID	SCDHEC	BEALB388MW110WG20130729		BEALB388MW110WG20130729-C	BEALB388MW111WG20130729	BEALB388MW112WG20130729
Lab Sample ID	RBSL[1]	OG30003-001		OG30003-002	OG30003-004	OG30003-003
Date Collected		07/29/13		07/29/13	07/29/13	07/29/13
Volatile Organic Compounds by Method 8260B (µg/L)						
Benzene	5	**0.25**	J/	< 0.25	< 0.25	< 0.25
Ethylbenzene	700	**15**		< 0.25	< 0.25	< 0.25
Naphthalene	25	**72**		< 0.25	< 0.25	**14**
Toluene	1,000	< 0.25		< 0.25	< 0.25	< 0.25
Xylenes, Total	10,000	**23**		< 0.25	< 0.25	< 0.25
Semivolatile Organic Compounds by Method 8270D (µg/L)						
Benzo(a)anthracene	10	**0.33**		NA	< 0.10	< 0.11
Benzo(b)fluoranthene	10	**0.19**	J/	NA	< 0.10	< 0.11
Benzo(k)fluoranthene	10	< 0.11		NA	< 0.10	< 0.11
Chrysene	10	**0.20**	J/	NA	< 0.10	< 0.11
Dibenz(a,h)anthracene	10	< 0.11		NA	< 0.10	< 0.11

LBMH Area Address		391 Acorn Drive	391 Acorn Drive	391 Acorn Drive	391 Acorn Drive
Well ID		MW113	MW113-C	MW114	MW114-A
Sample ID	SCDHEC	BEALB391MW113WG20130730	BEALB391MW113WG20130730-C	BEALB391MW114WG20130729	BEALB391MW114WG20130729-A
Lab Sample ID	RBSL[1]	OG30003-009	OG30003-010	OG30003-007	OG30003-008
Date Collected		07/30/13	07/30/13	07/29/13	07/29/13
Volatile Organic Compounds by Method 8260B (µg/L)					
Benzene	5	< 0.25	< 0.25	< 0.25	< 0.25
Ethylbenzene	700	< 0.25	< 0.25	< 0.25	< 0.25
Naphthalene	25	< 0.25	< 0.25	**6.6**	**6.3**
Toluene	1,000	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes, Total	10,000	< 0.25	< 0.25	< 0.25	< 0.25
Semivolatile Organic Compounds by Method 8270D (µg/L)					
Benzo(a)anthracene	10	< 0.11	NA	< 0.11	< 0.11
Benzo(b)fluoranthene	10	< 0.11	NA	< 0.11	< 0.11
Benzo(k)fluoranthene	10	< 0.11	NA	< 0.11	< 0.11
Chrysene	10	< 0.11	NA	< 0.11	< 0.11
Dibenz(a,h)anthracene	10	< 0.11	NA	< 0.11	< 0.11

LBMH Area Address		391 Acorn Drive	391 Acorn Drive	398 Acorn Drive	398 Acorn Drive
Well ID		MW115	MW116	MW104	MW105
Sample ID	SCDHEC	BEALB391MW115WG20130729	BEALB391MW116WG20130729	BEALB398MW104WG20130730	BEALB398MW105WG20130730
Lab Sample ID	RBSL[1]	OG30003-006	OG30003-005	OG30003-013	OG30003-012
Date Collected		07/29/13	07/29/13	07/30/13	07/30/13
Volatile Organic Compounds by Method 8260B (µg/L)					
Benzene	5	< 0.25	< 0.25	< 0.25	< 0.25
Ethylbenzene	700	< 0.25	< 0.25	< 0.25	< 0.25
Naphthalene	25	< 0.25	**3.7**	< 0.25	< 0.25
Toluene	1,000	< 0.25	< 0.25	< 0.25	< 0.25
Xylenes, Total	10,000	< 0.25	< 0.25	< 0.25	< 0.25
Semivolatile Organic Compounds by Method 8270D (µg/L)					
Benzo(a)anthracene	10	< 0.12	< 0.10	< 0.10	< 0.11
Benzo(b)fluoranthene	10	< 0.12	< 0.10	< 0.10	< 0.11
Benzo(k)fluoranthene	10	< 0.12	< 0.10	< 0.10	< 0.11
Chrysene	10	< 0.12	< 0.10	< 0.10	< 0.11
Dibenz(a,h)anthracene	10	< 0.12	< 0.10	< 0.10	< 0.11

Table 4
Summary of Analytical Results
Laurel Bay Military Housing Area
MCAS Beaufort, South Carolina

LBMH Area Address		398 Acorn Drive		437 Elderberry Drive		437 Elderberry Drive		437 Elderberry Drive	
Well ID		MW106		MW133		MW133-A		MW134	
Sample ID	SCDHEC	BEALB398MW106WG20130730		BEALB437MW133WG20130731		BEALB437MW133WG20130731-A		BEALB437MW134WG20130731	
Lab Sample ID	RBSL[1]	OG30003-011		OH01003-006		OH01003-007		OH01003-008	
Date Collected		07/30/13		07/31/13		07/31/13		07/31/13	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	**0.71**		**0.93**		**0.96**		< 0.50	
Ethylbenzene	700	**0.18**	**J/**	**25**		**26**		< 0.50	
Naphthalene	25	**0.93**		**110**		**110**		**6.9**	
Toluene	1,000	< 0.25		**0.57**		**0.61**		< 0.50	
Xylenes, Total	10,000	< 0.25		**49**		**50**		< 0.50	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	< 0.11		< 0.21	*/Q	< 0.21	*/Q	< 0.21	
Benzo(b)fluoranthene	10	< 0.11		< 0.21	*/Q	< 0.21	*/Q	< 0.21	
Benzo(k)fluoranthene	10	< 0.11		< 0.21	*/Q	< 0.21	*/Q	< 0.21	
Chrysene	10	< 0.11		< 0.21	*/Q	< 0.21	*/Q	< 0.21	
Dibenz(a,h)anthracene	10	< 0.11		< 0.21	*/Q	< 0.21	*/Q	< 0.21	

LBMH Area Address		437 Elderberry Drive		437 Elderberry Drive		437 Elderberry Drive		437 Elderberry Drive	
Well ID		MW135		MW140		MW140-C		MW141	
Sample ID	SCDHEC	BEALB437MW135WG20130731		BEALB437MW140WG20130731		BEALB437MW140WG20130731-C		BEALB437MW141WG20130731	
Lab Sample ID	RBSL[1]	OH01003-005		OH01003-001		OH01003-002		OH01003-003	
Date Collected		07/31/13		07/31/13		07/31/13		07/31/13	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	700	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	25	< 0.50		< 0.50		< 0.50		< 0.50	
Toluene	1,000	< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, Total	10,000	< 0.50		< 0.50		< 0.50		< 0.50	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	< 0.21		< 0.21		NA		< 0.21	
Benzo(b)fluoranthene	10	< 0.21		< 0.21		NA		< 0.21	
Benzo(k)fluoranthene	10	< 0.21		< 0.21		NA		< 0.21	
Chrysene	10	< 0.21		< 0.21		NA		< 0.21	
Dibenz(a,h)anthracene	10	< 0.21		< 0.21		NA		< 0.21	

LBMH Area Address		437 Elderberry Drive		441 Elderberry Drive		441 Elderberry Drive		441 Elderberry Drive	
Well ID		MW142		MW117		MW118		MW119	
Sample ID	SCDHEC	BEALB437MW142WG20130731		BEALB441MW117WG20130731		BEALB441MW118WG20130731		BEALB441MW119WG20130731	
Lab Sample ID	RBSL[1]	OH01003-004		OH01003-009		OH01003-010		OH01003-011	
Date Collected		07/31/13		07/31/13		07/31/13		07/31/13	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	700	< 0.50		< 0.50		< 0.50		**0.22**	**J/**
Naphthalene	25	**0.33**	**J/**	< 0.50		**6.9**		**7.0**	
Toluene	1,000	< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, Total	10,000	**0.18**	**J/**	< 0.50		< 0.50		< 0.50	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	< 0.21		< 0.21		< 0.21		< 0.21	
Benzo(b)fluoranthene	10	< 0.21		< 0.21		< 0.21		< 0.21	
Benzo(k)fluoranthene	10	< 0.21		< 0.21		< 0.21		< 0.21	
Chrysene	10	< 0.21		< 0.21		< 0.21		< 0.21	
Dibenz(a,h)anthracene	10	< 0.21		< 0.21		< 0.21		< 0.21	

LBMH Area Address		1054 Gardenia Drive		1054 Gardenia Drive		1054 Gardenia Drive		1054 Gardenia Drive	
Well ID		DMW1		MW2		MW2-A		MW4	
Sample ID	SCDHEC	1054DMW1WG20130801		1054MW2WG20130801		1054MW2WG20130801-A		1054MW4WG20130801	
Lab Sample ID	RBSL[1]	OH01003-017		OH01003-018		OH01003-019		OH01003-020	
Date Collected		08/01/13		08/01/13		08/01/13		08/01/13	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	700	< 0.50		< 0.50		< 0.50		< 0.50	
Naphthalene	25	< 0.50		**3.7**		**3.7**		< 0.50	
Toluene	1,000	< 0.50		< 0.50		< 0.50		< 0.50	
Xylenes, Total	10,000	< 0.50		< 0.50		< 0.50		< 0.50	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	< 0.20		< 0.21		< 0.21		< 0.20	
Benzo(b)fluoranthene	10	< 0.20		< 0.21		< 0.21		< 0.20	
Benzo(k)fluoranthene	10	< 0.20		< 0.21		< 0.21		< 0.20	
Chrysene	10	< 0.20		< 0.21		< 0.21		< 0.20	
Dibenz(a,h)anthracene	10	< 0.20		< 0.21		< 0.21		< 0.20	

Table 4
Summary of Analytical Results
Laurel Bay Military Housing Area
MCAS Beaufort, South Carolina

LBMH Area Address		1054 Gardenia Drive		1054 Gardenia Drive		1054 Gardenia Drive		1054 Gardenia Drive	
Well ID		MW7		MW127		MW128		MW128-C	
Sample ID	SCDHEC	1054MW7WG20130801		BEALB1054MW127WG20130801		BEALB1054MW128WG20130801		BEALB1054MW128WG20130801-C	
Lab Sample ID	RBSL[1]	OH01003-016		OH01003-014		OH01003-012		OH01003-013	
Date Collected		08/01/13		08/01/13		08/01/13		08/01/13	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	< 0.50		< 0.50		< 0.50		< 0.50	
Ethylbenzene	700	< 0.50		**2.5**		**4.4**		< 0.50	
Naphthalene	25	**3.6**		**25**		**42**		< 0.50	
Toluene	1,000	< 0.50		< 0.50		**0.20**	**J/**	< 0.50	
Xylenes, Total	10,000	< 0.50		**0.62**		**6.3**		< 0.50	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	< 0.21		< 0.21	*/Q	< 0.21	*/Q	NA	
Benzo(b)fluoranthene	10	< 0.21		< 0.21	*/Q	< 0.21	*/Q	NA	
Benzo(k)fluoranthene	10	< 0.21		< 0.21	*/Q	< 0.21	*/Q	NA	
Chrysene	10	< 0.21		< 0.21	*/Q	< 0.21	*/Q	NA	
Dibenz(a,h)anthracene	10	< 0.21		< 0.21	*/Q	< 0.21	*/Q	NA	

LBMH Area Address		1054 Gardenia Drive		1472 Cardinal Lane		1472 Cardinal Lane		1472 Cardinal Lane	
Well ID		MW129		MW130		MW130-A		MW131	
Sample ID	SCDHEC	BEALB1054MW129WG20130801		BEALB1472MW130WG20130802		BEALB1472MW130WG20130802-A		BEALB1472MW131WG20130802	
Lab Sample ID	RBSL[1]	OH01003-015		OH03004-006		OH03004-007		OH03004-005	
Date Collected		08/01/13		08/02/13		08/02/13		08/02/13	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	**0.32**	**J/**	**3.3**		**3.2**		< 0.25	
Ethylbenzene	700	**18**		**13**		**13**		< 0.25	
Naphthalene	25	**73**		**37**		**37**		< 0.25	
Toluene	1,000	**2.1**		**0.33**	**J/**	**0.32**	**J/**	< 0.25	
Xylenes, Total	10,000	**35**		**19**		**18**		< 0.25	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	< 0.21		< 0.11	/Q	< 0.11		< 0.11	
Benzo(b)fluoranthene	10	< 0.21		< 0.11	/Q	< 0.11		< 0.11	
Benzo(k)fluoranthene	10	< 0.21		< 0.11	/Q	< 0.11		< 0.11	
Chrysene	10	< 0.21		< 0.11	/Q	< 0.11		< 0.11	
Dibenz(a,h)anthracene	10	< 0.21		< 0.11	/Q	< 0.11		< 0.11	

LBMH Area Address		1472 Cardinal Lane		1472 Cardinal Lane		1472 Cardinal Lane		1472 Cardinal Lane	
Well ID		MW132		MW143		MW144		MW144-C	
Sample ID	SCDHEC	BEALB1472MW132WG20130802		BEALB1472MW143WG20130802		BEALB1472MW144WG20130802		BEALB1472MW144WG20130802-C	
Lab Sample ID	RBSL[1]	OH03004-004		OH03004-003		OH03004-001		OH03004-002	
Date Collected		08/02/13		08/02/13		08/02/13		08/02/13	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	< 0.25		< 0.25		< 0.25		< 0.25	
Ethylbenzene	700	< 0.25		< 0.25		< 0.25		< 0.25	
Naphthalene	25	< 0.25		**3.8**		**4.1**		< 0.25	
Toluene	1,000	< 0.25		< 0.25		< 0.25		< 0.25	
Xylenes, Total	10,000	< 0.25		< 0.25		< 0.25		< 0.25	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	< 0.10		< 0.11		< 0.11	/Q	NA	
Benzo(b)fluoranthene	10	< 0.10		< 0.11		< 0.11	/Q	NA	
Benzo(k)fluoranthene	10	< 0.10		< 0.11		< 0.11	/Q	NA	
Chrysene	10	< 0.10		< 0.11		< 0.11	/Q	NA	
Dibenz(a,h)anthracene	10	< 0.10		< 0.11		< 0.11	/Q	NA	

LBMH Area Address		1472 Cardinal Lane	
Well ID		MW145	
Sample ID	SCDHEC	BEALB1472MW145WG20130801	
Lab Sample ID	RBSL[1]	OH01003-021	
Date Collected		08/01/13	
Volatile Organic Compounds by Method 8260B (µg/L)			
Benzene	5	< 0.50	
Ethylbenzene	700	< 0.50	
Naphthalene	25	< 0.50	
Toluene	1,000	< 0.50	
Xylenes, Total	10,000	< 0.50	
Semivolatile Organic Compounds by Method 8270D (µg/L)			
Benzo(a)anthracene	10	< 0.21	
Benzo(b)fluoranthene	10	< 0.21	
Benzo(k)fluoranthene	10	< 0.21	
Chrysene	10	< 0.21	
Dibenz(a,h)anthracene	10	< 0.21	

Notes:
[1] SCDHEC RBSL - South Carolina Department of Health and Environmental Control Risk Based Screening Level
-A - Indicates a field duplicate sample.
-C - Indicates a trip blank sample.
BOLD font indicates the analyte was detected.
LBMH - Laurel Bay Military Housing
NA - Not Analyzed
NS - No Standard
Shading indicates the concentration exceeds the SCDHEC RBSL.
See Table 6 for explanation of data qualifiers.
µg/L - micrograms per liter

Table 4
Summary of Analytical Results - September 2014
Laurel Bay Military Housing Area
MCAS Beaufort, South Carolina

LBMH Area Address		282 Birch Drive		282 Birch Drive		282 Birch Drive		282 Birch Drive	
Well ID		MW136		MW136-a		MW136-c		MW137	
Sample ID	SCDHEC	BEALB282MW136WG20140912		BEALB282MW136WG20140912-a		BEALB282MW136WG20140912-c		BEALB282MW137WG20140912	
Lab Sample ID	RBSL[1]	PI13008-002		PI13008-003		PI13008-001		PI13008-005	
Date Collected		09/12/14		09/12/14		09/12/14		09/12/14	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	< 0.40		< 0.40		< 0.40		< 0.40	
Ethylbenzene	700	**0.76**	**J/**	**0.76**	**J/**	< 0.20		< 0.20	
Naphthalene	25	**14**		**15**		< 0.20		< 0.20	
Toluene	1,000	< 0.20		< 0.20		< 0.20		< 0.20	
Xylenes, Total	10,000	< 0.40		< 0.40		< 0.40		< 0.40	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	< 0.040		< 0.040		NA		< 0.040	
Benzo(b)fluoranthene	10	< 0.040		< 0.040		NA		< 0.040	
Benzo(k)fluoranthene	10	< 0.040		< 0.040		NA		< 0.040	
Chrysene	10	< 0.040		< 0.040		NA		< 0.040	
Dibenz(a,h)anthracene	10	< 0.080		< 0.080		NA		< 0.080	

LBMH Area Address		282 Birch Drive		282 Birch Drive		282 Birch Drive		388 Acorn Drive	
Well ID		MW138		MW139		MW139-d		MW110	
Sample ID	SCDHEC	BEALB282MW138WG20140912		BEALB282MW139WG20140912		BEALB282MW139WG20140912-d		BEALB388MW110WG20140910	
Lab Sample ID	RBSL[1]	PI13008-004		PI13008-006		PI13008-007		PI11022-002	
Date Collected		09/12/14		09/12/14		09/12/14		09/10/14	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	< 0.40		< 0.40		< 0.40		**2**	**J/**
Ethylbenzene	700	< 0.20		< 0.20		< 0.20		**14**	
Naphthalene	25	< 0.20		< 0.20		< 0.20		**71**	
Toluene	1,000	< 0.20		< 0.20		< 0.20		< 0.20	
Xylenes, Total	10,000	< 0.40		< 0.40		< 0.40		**18**	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Benzo(b)fluoranthene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Benzo(k)fluoranthene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Chrysene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Dibenz(a,h)anthracene	10	< 0.080		< 0.080		< 0.080		< 0.080	

LBMH Area Address		388 Acorn Drive		388 Acorn Drive		388 Acorn Drive		391 Acorn Drive	
Well ID		MW110-c		MW111		MW112		MW113	
Sample ID	SCDHEC	BEALB388MW110WG20140910-c		BEALB388MW111WG20140910		BEALB388MW112WG20140910		BEALB391MW113WG20140910	
Lab Sample ID	RBSL[1]	PI11022-001		PI11022-003		PI11022-004		PI11022-007	
Date Collected		09/10/14		09/11/14		09/10/14		09/10/14	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	< 0.40		< 0.40		< 0.40		< 0.40	
Ethylbenzene	700	< 0.20		< 0.20		< 0.20		< 0.20	
Naphthalene	25	< 0.20		**0.48**	**J/**	**26**		< 0.20	
Toluene	1,000	< 0.20		< 0.20		< 0.20		< 0.20	
Xylenes, Total	10,000	< 0.40		< 0.40		< 0.40		< 0.40	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	NA		< 0.040		< 0.040		< 0.040	
Benzo(b)fluoranthene	10	NA		< 0.040		< 0.040		< 0.040	
Benzo(k)fluoranthene	10	NA		< 0.040		< 0.040		< 0.040	
Chrysene	10	NA		< 0.040		< 0.040		< 0.040	
Dibenz(a,h)anthracene	10	NA		< 0.080		< 0.080		< 0.080	

LBMH Area Address		391 Acorn Drive		391 Acorn Drive		391 Acorn Drive		398 Acorn Drive	
Well ID		MW114		MW115		MW116		MW104	
Sample ID	SCDHEC	BEALB391MW114WG20140910		BEALB391MW115WG20140910		BEALB391MW116WG20140910		BEALB398MW104WG20140910	
Lab Sample ID	RBSL[1]	PI11022-008		PI11022-005		PI11022-006		PI11022-010	
Date Collected		09/10/14		09/10/14		09/10/14		09/10/14	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	< 0.40		< 0.40		< 0.40		< 0.40	
Ethylbenzene	700	< 0.20		< 0.20		< 0.20		< 0.20	
Naphthalene	25	**12**		**0.89**	**J/**	**0.57**	**J/**	< 0.20	
Toluene	1,000	< 0.20		< 0.20		< 0.20		< 0.20	
Xylenes, Total	10,000	< 0.40		< 0.40		< 0.40		< 0.40	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Benzo(b)fluoranthene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Benzo(k)fluoranthene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Chrysene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Dibenz(a,h)anthracene	10	< 0.080		< 0.080		< 0.080		< 0.080	

Table 4
Summary of Analytical Results - September 2014
Laurel Bay Military Housing Area
MCAS Beaufort, South Carolina

LBMH Area Address		398 Acorn Drive		398 Acorn Drive		437 Elderberry Drive		437 Elderberry Drive	
Well ID		MW105		MW106		MW133		MW133-a	
Sample ID	SCDHEC	BEALB398MW105WG20140910		BEALB398MW106WG20140910		BEALB437MW133WG20140911		BEALB437MW133WG20140911-a	
Lab Sample ID	RBSL[1]	PI11022-009		PI11022-011		PI12015-006		PI12015-007	
Date Collected		09/10/14		09/10/14		09/11/14		09/11/14	
Volatile Organic Compounds by Method 8260B (µg/L)									
Benzene	5	< 0.40		< 0.40		**0.40**	**J/**	**0.41**	**J/**
Ethylbenzene	700	< 0.20		< 0.20		**8.8**		**9.3**	
Naphthalene	25	< 0.20		< 0.20		**41**		**45**	
Toluene	1,000	< 0.20		< 0.20		< 0.20		< 0.20	
Xylenes, Total	10,000	< 0.40		< 0.40		**18**		**19**	
Semivolatile Organic Compounds by Method 8270D (µg/L)									
Benzo(a)anthracene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Benzo(b)fluoranthene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Benzo(k)fluoranthene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Chrysene	10	< 0.040		< 0.040		< 0.040		< 0.040	
Dibenz(a,h)anthracene	10	< 0.080		< 0.080		< 0.080		< 0.080	

LBMH Area Address		437 Elderberry Drive	437 Elderberry Drive	437 Elderberry Drive	437 Elderberry Drive
Well ID		MW134	MW135	MW140	MW141
Sample ID	SCDHEC	BEALB437MW134WG20140911	BEALB437MW135WG20140911	BEALB437MW140WG20140911	BEALB437MW141WG20140911
Lab Sample ID	RBSL[1]	PI12015-010	PI12015-009	PI12015-003	PI12015-001
Date Collected		09/11/14	09/11/14	09/11/14	09/11/14
Volatile Organic Compounds by Method 8260B (µg/L)					
Benzene	5	< 0.40	< 0.40	< 0.40	< 0.40
Ethylbenzene	700	< 0.20	< 0.20	< 0.20	< 0.20
Naphthalene	25	**1.1**	< 0.20	< 0.20	< 0.20
Toluene	1,000	< 0.20	< 0.20	< 0.20	< 0.20
Xylenes, Total	10,000	< 0.40	< 0.40	< 0.40	< 0.40
Semivolatile Organic Compounds by Method 8270D (µg/L)					
Benzo(a)anthracene	10	< 0.040	< 0.040	< 0.040	< 0.040
Benzo(b)fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040
Benzo(k)fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040
Chrysene	10	< 0.040	< 0.040	< 0.040	< 0.040
Dibenz(a,h)anthracene	10	< 0.080	< 0.080	< 0.080	< 0.080

LBMH Area Address		437 Elderberry Drive	437 Elderberry Drive	441 Elderberry Drive	441 Elderberry Drive
Well ID		MW141-c	MW142	MW117	MW118
Sample ID	SCDHEC	BEALB437MW141WG20140911-c	BEALB437MW142WG20140911	BEALB441MW117WG20140911	BEALB441MW118WG20140911
Lab Sample ID	RBSL[1]	PI12015-013	PI12015-002	PI12015-008	PI12015-005
Date Collected		09/11/14	09/11/14	09/11/14	09/11/14
Volatile Organic Compounds by Method 8260B (µg/L)					
Benzene	5	< 0.40	< 0.40	< 0.40	< 0.40
Ethylbenzene	700	< 0.20	< 0.20	< 0.20	< 0.20
Naphthalene	25	< 0.20	< 0.20	**0.54** **J/**	**2.7**
Toluene	1,000	< 0.20	< 0.20	< 0.20	< 0.20
Xylenes, Total	10,000	< 0.40	< 0.40	< 0.40	< 0.40
Semivolatile Organic Compounds by Method 8270D (µg/L)					
Benzo(a)anthracene	10	NA	< 0.040	< 0.040	< 0.040
Benzo(b)fluoranthene	10	NA	< 0.040	< 0.040	< 0.040
Benzo(k)fluoranthene	10	NA	< 0.040	< 0.040	< 0.040
Chrysene	10	NA	< 0.040	< 0.040	< 0.040
Dibenz(a,h)anthracene	10	NA	< 0.080	< 0.080	< 0.080

LBMH Area Address		441 Elderberry Drive	1054 Gardenia Drive	1054 Gardenia Drive	1054 Gardenia Drive
Well ID		MW119	DMW1	MW2	MW4
Sample ID	SCDHEC	BEALB441MW119WG20140911	1054DMW1WG20140911	1054MW2WG20140911	1054MW4WG20140911
Lab Sample ID	RBSL[1]	PI12015-004	PI12015-016	PI12015-019	PI12015-011
Date Collected		09/11/14	09/11/14	09/11/14	09/11/14
Volatile Organic Compounds by Method 8260B (µg/L)					
Benzene	5	< 0.40	< 0.40	< 0.40	< 0.40
Ethylbenzene	700	**0.33** **J/**	< 0.20	< 0.20	< 0.20
Naphthalene	25	**8.1**	< 0.20	**0.45** **J/**	< 0.20
Toluene	1,000	< 0.20	< 0.20	< 0.20	< 0.20
Xylenes, Total	10,000	< 0.40	< 0.40	< 0.40	< 0.40
Semivolatile Organic Compounds by Method 8270D (µg/L)					
Benzo(a)anthracene	10	< 0.040	< 0.040	< 0.040	< 0.040
Benzo(b)fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040
Benzo(k)fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040
Chrysene	10	< 0.040	< 0.040	< 0.040	< 0.040
Dibenz(a,h)anthracene	10	< 0.080	< 0.080	< 0.080	< 0.080

Table 4
Summary of Analytical Results - September 2014
Laurel Bay Military Housing Area
MCAS Beaufort, South Carolina

LBMH Area Address		1054 Gardenia Drive	1054 Gardenia Drive	1054 Gardenia Drive	1054 Gardenia Drive
Well ID		MW7	MW127	MW128	MW129
Sample ID	SCDHEC	1054MW7WG20140911	BEALB1054MW127WG20140911	BEALB1054MW128WG20140911	BEALB1054MW129WG20140911
Lab Sample ID	RBSL[1]	PI12015-014	PI12015-012	PI12015-015	PI12015-017
Date Collected		09/11/14	09/11/14	09/11/14	09/11/14
Volatile Organic Compounds by Method 8260B (µg/L)					
Benzene	5	< 0.40	< 0.40	< 0.40	**0.19 J/**
Ethylbenzene	700	< 0.20	**2.3**	**2.4**	**13**
Naphthalene	25	< 0.20	**15**	**18**	**54**
Toluene	1,000	**1.5**	< 0.20	< 0.20	**1.3**
Xylenes, Total	10,000	< 0.40	**1.1**	**2.5**	**25**
Semivolatile Organic Compounds by Method 8270D (µg/L)					
Benzo(a)anthracene	10	< 0.040	< 0.040	< 0.040	< 0.040
Benzo(b)fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040
Benzo(k)fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040
Chrysene	10	< 0.040	< 0.040	< 0.040	< 0.040
Dibenz(a,h)anthracene	10	< 0.080	< 0.080	< 0.080	< 0.080

LBMH Area Address		1054 Gardenia Drive	1472 Cardinal Lane	1472 Cardinal Lane	1472 Cardinal Lane
Well ID		MW129-a	MW130	MW130-a	MW131
Sample ID	SCDHEC	BEALB1054MW129WG20140911-a	BEALB1472MW130WG20140912	BEALB1472MW130WG20140912-a	BEALB1472MW131WG20140912
Lab Sample ID	RBSL[1]	PI12015-018	PI13008-012	PI13008-013	PI13008-010
Date Collected		09/11/14	09/12/14	09/12/14	09/12/14
Volatile Organic Compounds by Method 8260B (µg/L)					
Benzene	5	**0.19 J/**	**5.6**	**5.8**	< 0.40
Ethylbenzene	700	**12**	**17**	**19**	< 0.20
Naphthalene	25	**44**	**36**	**40**	< 0.20
Toluene	1,000	**1.3**	**0.40 J/**	**0.42 J/**	< 0.20
Xylenes, Total	10,000	**22**	**14 /J**	**18**	< 0.40
Semivolatile Organic Compounds by Method 8270D (µg/L)					
Benzo(a)anthracene	10	< 0.040	< 0.040	< 0.040	< 0.040
Benzo(b)fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040
Benzo(k)fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040
Chrysene	10	< 0.040	< 0.040	< 0.040	< 0.040
Dibenz(a,h)anthracene	10	< 0.080	< 0.080	< 0.080	< 0.080

LBMH Area Address		1472 Cardinal Lane	1472 Cardinal Lane	1472 Cardinal Lane	1472 Cardinal Lane
Well ID		MW132	MW143	MW144	MW145
Sample ID	SCDHEC	BEALB1472MW132WG20140912	BEALB1472MW143WG20140912	BEALB1472MW144WG20140912	BEALB1472MW145WG20140912
Lab Sample ID	RBSL[1]	PI13008-014	PI13008-009	PI13008-008	PI13008-011
Date Collected		09/12/14	09/12/14	09/12/14	09/12/14
Volatile Organic Compounds by Method 8260B (µg/L)					
Benzene	5	< 0.40	< 0.40	< 0.40	< 0.40
Ethylbenzene	700	< 0.20	< 0.20	< 0.20	< 0.20
Naphthalene	25	< 0.20	< 0.20	< 0.20	< 0.20
Toluene	1,000	< 0.20	< 0.20	< 0.20	< 0.20
Xylenes, Total	10,000	< 0.40	< 0.40	< 0.40	< 0.40
Semivolatile Organic Compounds by Method 8270D (µg/L)					
Benzo(a)anthracene	10	< 0.040	< 0.040	< 0.040	< 0.040
Benzo(b)fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040
Benzo(k)fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040
Chrysene	10	< 0.040	< 0.040	< 0.040	< 0.040
Dibenz(a,h)anthracene	10	< 0.080	< 0.080	< 0.080	< 0.080

Notes:
[1] SCDHEC RBSL - South Carolina Department of Health and Environmental Control Risk Based Screening Level
-a - Indicates a field duplicate sample.
-c - Indicates a trip blank sample.
-d - Indicates a rinsate blank sample.
J/ - Indicates an estimated result < PQL and > MDL.
/J - Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
LBMH - Laurel Bay Military Housing
NA - Not Analyzed
NS - No Standard
BOLD font indicates the analyte was detected.
Shading indicates the concentration exceeds the SCDHEC RBSL.

Table 4
Summary of Analytical Results in Groundwater Samples - September 2015
MCAS Beaufort - Laurel Bay
Beaufort, South Carolina

LBMH Area Address		282 Birch Drive	282 Birch Drive	282 Birch Drive	282 Birch Drive	388 Acorn Drive	388 Acorn Drive	388 Acorn Drive
Well ID		BEALB282MW136	BEALB282MW137	BEALB282MW138	BEALB282MW139	BEALB388MW110	BEALB388MW111	BEALB388MW112
Sample ID	SC RBSL	BEALB282MW136	BEALB282MW137	BEALB282MW138	BEALB282MW139	BEALB388MW110	BEALB388MW111	BEALB388MW112
Lab Sample ID		WG20150915	WG20150915	WG20150915	WG20150915	WG20150914	WG20150914	WG20150914
Date Collected		QI15011-013	QI15011-016	QI15011-011	QI15011-008	QI15011-007	QI15011-005	QI15011-001
		09/15/15	09/15/15	09/15/15	09/15/15	09/14/15	09/14/15	09/14/15
Volatile Organic Compounds by Method 8260B (µg/L)								
Benzene	5	< 0.45	< 0.45	< 0.45	< 0.45	**0.75 J/**	< 0.45	< 0.45
Naphthalene	25	**16**	< 0.96	**0.14 J/**	< 0.96	**49 B/J**	< 0.96	**6.8 B/J**

LBMH Area Address		391 Acorn Drive	391 Acorn Drive	391 Acorn Drive	391 Acorn Drive	398 Acorn Drive	398 Acorn Drive	398 Acorn Drive
Well ID		BEALB391MW113	BEALB391MW114	BEALB391MW115	BEALB391MW116	BEALB398MW104	BEALB398MW105	BEALB398MW106
Sample ID	SC RBSL	BEALB391MW113	BEALB391MW114	BEALB391MW115	BEALB391MW116	BEALB398MW104	BEALB398MW105	BEALB398MW106
Lab Sample ID		WG20150915	WG20150914	WG20150914	WG20150914	WG20150915	WG20150915	WG20150915
Date Collected		QI15011-010	QI15011-006	QI15011-004	QI15011-003	QI15011-017	QI15011-015	QI15011-012
		09/15/15	09/14/15	09/14/15	09/14/15	09/15/15	09/15/15	09/15/15
Volatile Organic Compounds by Method 8260B (µg/L)								
Benzene	5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Naphthalene	25	< 0.96	**0.51 BJ/J**	**0.63 BJ/J**	**19 B/J**	< 0.96	**0.18 J/**	< 0.96

LBMH Area Address		437 Elderberry Drive	437 Elderberry Drive	437 Elderberry Drive	437 Elderberry Drive	437 Elderberry Drive	437 Elderberry Drive	1054 Gardenia Drive
Well ID		BEALB437MW133	BEALB437MW134	BEALB437MW135	BEALB437MW140	BEALB437MW141	BEALB437MW142	BEALB1054DMW1
Sample ID	SC RBSL	BEALB437MW133	BEALB437MW134	BEALB437MW135	BEALB437MW140	BEALB437MW141	BEALB437MW142	BEALB1054DMW1
Lab Sample ID		WG20150915	WG20150915	WG20150915	WG20150915	WG20150915	WG20150915	WG20150916
Date Collected		QI15011-024	QI15011-021	QI15011-018	QI15011-019	QI15011-022	QI15011-020	QI17024-006
		09/15/15	09/15/15	09/15/15	09/15/15	09/15/15	09/15/15	09/16/15
Volatile Organic Compounds by Method 8260B (µg/L)								
Benzene	5	**1.5 J/**	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Naphthalene	25	**180 B/J**	**0.86 J/**	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96

LBMH Area Address		1054 Gardenia Drive	1054 Gardenia Drive	1054 Gardenia Drive	1054 Gardenia Drive	1054 Gardenia Drive	1054 Gardenia Drive
Well ID		BEALB1054MW2	BEALB1054MW4	BEALB1054MW7	BEALB1054MW127	BEALB1054MW128	BEALB1054MW129
Sample ID	SC RBSL	BEALB1054MW2	BEALB1054MW4	BEALB1054MW7	BEALB1054MW127	BEALB1054MW128	BEALB1054MW129
Lab Sample ID		WG20150916	WG20150916	WG20150916	WG20150916	WG20150916	WG20150916
Date Collected		QI17024-001	QI17024-009	QI17024-008	QI17024-007	QI17024-005	QI17024-003
		09/16/15	09/16/15	09/16/15	09/16/15	09/16/15	09/16/15
Volatile Organic Compounds by Method 8260B (µg/L)							
Benzene	5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Naphthalene	25	< 0.96	< 0.96	< 0.96	**17**	**23 B/J**	**54 B/J**

Notes:
NS - No Standard
SC RBSL - South Carolina Risk-Based Screening Level from South Carolina Risk-Based Corrective Action for Petroleum Releases (SCDHEC, May 2001).
Bold font indicates the analyte was detected.
Bold font and shading indicates the concentration exceeds the SC RBSL.

Flags:
B/ - Detected in an associated blank as well as in the sample.
J/ - Estimated result less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit (MDL).
/J - Estimated detected result.
/UJ - Estimated non-detected result.

Table 5
Summary of Analytical Results in Groundwater Samples - November and December 2015
MCAS Beaufort - Laurel Bay
Beaufort, South Carolina

LBMH Area Address	SC RBSL	119 Banyan Drive	119 Banyan Drive	119 Banyan Drive	119 Banyan Drive	128 Banyan Drive	128 Banyan Drive
Sample ID		BEALB119MW01	BEALB119MW02	BEALB119MW03	BEALB119MW04	BEALB128MW01	BEALB128MW02
Lab Sample ID		WG20151211	WG20151211	WG20151211	WG20151214	WG20151214	WG20151214
Date Collected		QL11039-004	QL11039-003	QL11039-001	QL16007-001	QL16007-010	QL16007-008
		12/11/15	12/11/15	12/11/15	12/14/15	12/14/15	12/14/15
Volatile Organic Compounds by Method 8260B (µg/L)							
Benzene	5	< 0.45	< 0.45	< 0.45	< 0.45	**0.68** J/	< 0.45
Ethylbenzene	700	**5.0**	< 0.51	< 0.51	< 0.51	**6.5**	< 0.51
Naphthalene	25	**36** /J	< 0.96	< 0.96	< 0.96	**29**	< 0.96
Toluene	1000	< 0.48	**0.31** J/	< 0.48	< 0.48	**0.42** J/	< 0.48
Xylenes, Total	10,000	**3.3** J/	< 0.57	< 0.57	< 0.57	**21**	< 0.57
Semi-Volatiles by Method 8270D_SIM (µg/L)							
Benzo[a]anthracene	10	**0.065** J/	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Benzo[b]fluoranthene	10	**0.034** J/	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Benzo[k]fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Chrysene	10	**0.079** J/J	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dibenz[a,h]anthracene	10	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080

LBMH Area Address	SC RBSL	128 Banyan Drive	128 Banyan Drive	132 Banyan Drive	132 Banyan Drive	132 Banyan Drive	132 Banyan Drive
Sample ID		BEALB128MW03	BEALB128MW04	BEALB132MW01	BEALB132MW02	BEALB132MW03	BEALB132MW04
Lab Sample ID		WG20151214	WG20151214	WG20151215	WG20151215	WG20151215	WG20151215
Date Collected		QL16007-006	QL16007-003	QL17067-001	QL16007-020	QL16007-017	QL16007-012
		12/14/15	12/14/15	12/15/15	12/15/15	12/15/15	12/15/15
Volatile Organic Compounds by Method 8260B (µg/L)							
Benzene	5	< 0.45	< 0.45	**7.9**	**0.50** J/	< 0.45	< 0.45
Ethylbenzene	700	< 0.51	< 0.51	**42**	< 0.51	< 0.51	< 0.51
Naphthalene	25	< 0.96	< 0.96	**150** /J	**2.8** J/	< 0.96	**0.47** J/
Toluene	1000	< 0.48	**7.4**	< 0.48	< 0.48	< 0.48	< 0.48
Xylenes, Total	10,000	< 0.57	< 0.57	**39**	< 0.57	< 0.57	< 0.57
Semi-Volatiles by Method 8270D_SIM (µg/L)							
Benzo[a]anthracene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Benzo[b]fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Benzo[k]fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Chrysene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dibenz[a,h]anthracene	10	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080

Table 5
Summary of Analytical Results in Groundwater Samples - November and December 2015
MCAS Beaufort - Laurel Bay
Beaufort, South Carolina

LBMH Area Address	SC RBSL	135 Birch Drive	135 Birch Drive	135 Birch Drive	135 Birch Drive	148 Laurel Bay Boulevard	148 Laurel Bay Boulevard
Sample ID		BEALB135MW01	BEALB135MW02	BEALB135MW03	BEALB135MW04	BEALB148MW01	BEALB148MW02
Lab Sample ID		WG20151215	WG20151214	WG20151214	WG20151214	WG20151216	WG20151216
Date Collected		QL16007-011	QL16007-007	QL16007-004	QL16007-009	QL17067-011	QL17067-008
		12/15/15	12/14/15	12/14/15	12/14/15	12/16/15	12/16/15
Volatile Organic Compounds by Method 8260B (µg/L)							
Benzene	5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Ethylbenzene	700	**3.4 J/**	< 0.51	< 0.51	< 0.51	**13**	**0.60 J/**
Naphthalene	25	**79**	< 0.96	< 0.96	< 0.96	**110 /J**	**48 /J**
Toluene	1000	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	**0.24 J/**
Xylenes, Total	10,000	**0.36 J/**	< 0.57	< 0.57	< 0.57	**8.9**	< 0.57
Semi-Volatiles by Method 8270D_SIM (µg/L)							
Benzo[a]anthracene	10	< 0.040	< 0.040	< 0.040	< 0.040	**0.045 J/**	< 0.040
Benzo[b]fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Benzo[k]fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Chrysene	10	< 0.040	< 0.040	< 0.040	< 0.040	**0.043 J/**	< 0.040
Dibenz[a,h]anthracene	10	< 0.080	< 0.080	< 0.080 /UJ	< 0.080	< 0.080	< 0.080

LBMH Area Address	SC RBSL	148 Laurel Bay Boulevard	148 Laurel Bay Boulevard	156 Laurel Bay Boulevard	156 Laurel Bay Boulevard	156 Laurel Bay Boulevard	156 Laurel Bay Boulevard
Sample ID		BEALB148MW03	BEALB148MW04	BEALB156MW01	BEALB156MW02	BEALB156MW03	BEALB156MW04
Lab Sample ID		WG20151216	WG20151215	WG20151215	WG20151215	WG20151215	WG20151215
Date Collected		QL17067-005	QL17067-003	QL16007-018	QL16007-013	QL16007-015	QL16007-014
		12/16/15	12/15/15	12/15/15	12/15/15	12/15/15	12/15/15
Volatile Organic Compounds by Method 8260B (µg/L)							
Benzene	5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Ethylbenzene	700	**0.56 J/**	< 0.51	**9.2**	< 0.51	< 0.51	< 0.51
Naphthalene	25	**6.6 /J**	< 0.96	**72**	< 0.96	< 0.96	< 0.96
Toluene	1000	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Xylenes, Total	10,000	< 0.57	< 0.57	**25**	< 0.57	< 0.57	< 0.57
Semi-Volatiles by Method 8270D_SIM (µg/L)							
Benzo[a]anthracene	10	< 0.040	< 0.040	< 0.20	< 0.040	< 0.040	< 0.040
Benzo[b]fluoranthene	10	< 0.040	< 0.040	< 0.20	< 0.040	< 0.040	< 0.040
Benzo[k]fluoranthene	10	< 0.040	< 0.040	< 0.20	< 0.040	< 0.040	< 0.040
Chrysene	10	< 0.040	< 0.040	< 0.20	< 0.040	< 0.040	< 0.040
Dibenz[a,h]anthracene	10	< 0.080	< 0.080	< 0.40	< 0.080	< 0.080	< 0.080

Table 5
Summary of Analytical Results in Groundwater Samples - November and December 2015
MCAS Beaufort - Laurel Bay
Beaufort, South Carolina

LBMH Area Address	SC RBSL	156 Laurel Bay Boulevard	1033 Foxglove Street	1033 Foxglove Street	1033 Foxglove Street	1033 Foxglove Street	1055 Gardenia Drive
Sample ID		BEALB156MW05	BEALB1033MW01	BEALB1033MW02	BEALB1033MW03	BEALB1033MW04	BEALB1055MW01
Lab Sample ID		WG20151215	WG20151216	WG20151216	WG20151216	WG20151215	WG20151216
Date Collected		QL16007-016	QL17067-006	QL17067-004	QL17067-009	QL16007-021	QL17067-018
		12/15/15	12/16/15	12/16/15	12/16/15	12/15/15	12/16/15
Volatile Organic Compounds by Method 8260B (µg/L)							
Benzene	5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Ethylbenzene	700	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	**3.6 J/**
Naphthalene	25	< 0.96	**1.1 J/J**	< 0.96	**0.30 J/J**	**0.71 J/**	**39 /J**
Toluene	1000	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Xylenes, Total	10,000	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57	**0.32 J/**
Semi-Volatiles by Method 8270D_SIM (µg/L)							
Benzo[a]anthracene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Benzo[b]fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Benzo[k]fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Chrysene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dibenz[a,h]anthracene	10	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080

LBMH Area Address	SC RBSL	1055 Gardenia Drive	1055 Gardenia Drive	1055 Gardenia Drive	1059 Gardenia Drive	1059 Gardenia Drive	1059 Gardenia Drive
Sample ID		BEALB1055MW02	BEALB1055MW03	BEALB1055MW04	BEALB1059MW01	BEALB1059MW02	BEALB1059MW03
Lab Sample ID		WG20151216	WG20151216	WG20151216	WG20151216	WG20151216	WG20151216
Date Collected		QL17067-017	QL17067-015	QL17067-013	QL17067-010	QL17067-012	QL17067-014
		12/16/15	12/16/15	12/16/15	12/16/15	12/16/15	12/16/15
Volatile Organic Compounds by Method 8260B (µg/L)							
Benzene	5	< 0.45	< 0.45	< 0.45	**1.8 J/**	< 0.45	< 0.45
Ethylbenzene	700	< 0.51	< 0.51	< 0.51	**8.8**	**2.7 J/**	< 0.51
Naphthalene	25	< 0.96	< 0.96	< 0.96	**39 /J**	**10 /J**	< 0.96
Toluene	1000	< 0.48	< 0.48	< 0.48	**3.8 J/**	< 0.48	< 0.48
Xylenes, Total	10,000	< 0.57	< 0.57	< 0.57	**39**	< 0.57	< 0.57
Semi-Volatiles by Method 8270D_SIM (µg/L)							
Benzo[a]anthracene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Benzo[b]fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Benzo[k]fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Chrysene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dibenz[a,h]anthracene	10	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080

Table 5
Summary of Analytical Results in Groundwater Samples - November and December 2015
MCAS Beaufort - Laurel Bay
Beaufort, South Carolina

LBMH Area Address		1059 Gardenia Drive	1168 Jasmine Street	1168 Jasmine Street	1168 Jasmine Street	1168 Jasmine Street
Sample ID	SC RBSL	BEALB1059MW04	BEALB1168MW01	BEALB1168MW02	BEALB1168MW03	BEALB1168MW04
Lab Sample ID		WG20151216	WG20151217	WG20151217	WG20151217	WG20151217
Date Collected		QL17067-016	QL17067-021	QL17067-019	QL17067-020	QL17067-023
		12/16/15	12/17/15	12/17/15	12/17/15	12/17/15
Volatile Organic Compounds by Method 8260B (µg/L)						
Benzene	5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Ethylbenzene	700	< 0.51	**0.71** J/J	< 0.51	< 0.51	< 0.51
Naphthalene	25	< 0.96	**1.9** J/J	< 0.96	< 0.96	< 0.96
Toluene	1000	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Xylenes, Total	10,000	< 0.57	< 0.57	< 0.57	< 0.57	< 0.57
Semi-Volatiles by Method 8270D_SIM (µg/L)						
Benzo[a]anthracene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Benzo[b]fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Benzo[k]fluoranthene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Chrysene	10	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Dibenz[a,h]anthracene	10	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080

Notes:
SC RBSL - South Carolina Risk-Based Screening Level from South Carolina Risk-Based Corrective Action for Petroleum Releases (SCDHEC, May 2015)
Bold font indicates the analyte was detected.
Bold font and shading indicates the concentration exceeds the SC RBSL.

Flags:
J/ - Estimated result less than the Practical Quantitation Limit (PQL) and greater than or equal to the Method Detection Limit (MDL).
/J - Estimated detected result.
/UJ - Estimated non-detected result.

Appendix F
Regulatory Correspondence

CDM - AECOM
Multimedia Joint Venture

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment

10 September 2008

Beaufort Military Complex Family Housing
ATTN: Kyle Broadfoot
1510 Laurel Bay Blvd.
Beaufort, SC 29906

Re: MCAS – Laurel Bay Housing – 398 Acorn
Site ID # 04050
UST Closure Reports received 31 January 2008
Beaufort County

Dear Mr. Broadfoot:

The purpose of this letter is to verify a release of fuel oil at the referenced residence. 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 removal and soil sampling. Based on the information contained in the closure report, a potential violation of the South Carolina Pollution Control Act has occurred in that there has been an unauthorized release of petroleum to the environment.

Additional assessment activities are required for this site. Specifically the Department requests that a groundwater sample be collected from this site. Please note, the Department approved a groundwater sampling proposal for Laurel Bay submitted by MCAS under separate cover dated 16 June 2008.

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: Region 8 District EQC (via pdf)
MCAS, Commanding Officer, Attention: S-4 NREAO (William Drawdy) (via pdf)
Technical File (via pdf)

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

30 December 2008

Commanding Officer
ATTN: S-4 NREAO (Craig Ehde)
MCAS
PO Box 55001
Beaufort, SC 29904-5001

Re: MCAS – Laurel Bay Housing – 398 Acorn
Site ID # 04050
Groundwater Sampling Results received 6 November 2008
Beaufort County

Dear Mr. Ehde:

The Department has completed review of the referenced document. The submitted analytical results indicate that chemicals of concern are above established Risk-Based Screening Levels and additional investigative and/or remedial actions are warranted.

The Department recommends that a permanent groundwater monitoring well be installed to verify the results of the temporary groundwater monitoring well. Please submit the proposal to conduct the necessary assessment and/or remedial measures at this site no later than 28 February 2009.

Should you have any questions, please contact me at 803-896-4179 (office phone), 803-896-6245 (fax) or cookejt@dhec.sc.gov.

Sincerely,

Jan T. Cooke, Hydrogeologist
AST Petroleum Restoration
& Site Environmental Investigations Section
Land Revitalization Division
Bureau of Land and Waste Management
SC Dept. of Health & Environmental Control

cc: Region 8 District EQC
Tri-Command Communities; Attn: Mr. Robert Bible; 600 Laurel Bay Road Beaufort, SC 29906
Technical File

Received 4/14/11

D H E C

PROMOTE PROTECT PROSPER

Promoting and protecting the health of the public and the environment

Bureau of Land and Waste Management
Division of Waste Management

April 6, 2011

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

Facility: Marine Corps Air Station, Beaufort
EPA ID #: SC1 750 216 169

RE: Review
Report of Findings for Laurel Bay Military Housing Area
Dated July 2010 and
Well Installation and Sampling Work Plan for
Laurel Bay Military Housing
Dated March 2011

Dear Mr. Drawdy:

The South Carolina Department of Health and Environmental Control (the Department) received the above referenced Report of Findings for Laurel Bay Military Housing Area on July 23, 2010 and Addendum to Well Installation and Sampling Work Plan for Laurel Bay Military Housing on March 4, 2011. Heating oil stored in underground storage tanks (USTs) historically heated homes in Laurel Bay. The USTs are no longer used for storing heating oil, and MCAS Beaufort is currently removing these USTs and evaluating their integrity. This Report of Findings and Well Installation and Sampling Work Plan document the groundwater conditions following limited soil sampling and temporary monitoring wells showed evidence of groundwater contamination related to some of the heating oil USTs.

Based on this review, the Department has generated the attached memorandum by Michael W. Danielsen from the Federal Facilities Groundwater Section. The response to the Department's comments may be addressed by submitting revised pages to be inserted into the original document, or by submitting another document. If new or revised pages

are submitted, please indicate whether each submitted page is a revision to an existing page in the original document or a new page not contained in the original document. Each revised page should be coded. For example, 32(R-7/30/07) would be page 32, revised 7/30/07. In addition to revisions, please provide a summary of the comment responses and revision pages.

Please note that the Department's review is based on available information provided by the MCAS. Any information found to be contradictory to this decision might require additional action. Furthermore, the Department retains the right to request further investigation if deemed necessary.

If you have any questions regarding this issue, please contact me at (803) 896-6675 or petruslb@dhec.sc.gov.

Sincerely,

Laurel B. Petrus, Environmental Engineer Associate
Corrective Action Engineering Section

Attachments

cc: Michael W. Danielsen, Hydrogeologist
Russell Berry, EQC Region 8
Dan Owens, NAVFAC SE

D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health
and Environmental Control

Federal Facilities
Groundwater Section
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-4000
Fax (803) 896-4002

MEMORANDUM

TO: Laurel Petrus, Environmental Engineer Associate
Corrective Action Engineering Section
Division of Waste Management
Bureau of Land and Waste Management

FROM: Michael W. Danielsen, Hydrogeologist
Federal Facilities Groundwater Section
Division of Waste Management
Bureau of Land and Waste Management

DATE: April 5, 2011

RE: Marine Corps Air Station (MCAS)
Beaufort, South Carolina
SC1 750 216 169

Report of Findings for Laurel Bay Military Housing Area
Dated July 2010 (Received July 23, 2010)

Addendum to Well Installation and Sampling Work Plan for
Laurel Bay Military Housing Area
Dated March 2011 (Received March 4, 2011)

The above referenced Findings Report provides information from the installation of 35 monitoring wells as part of an ongoing effort to remove underground residential heating oil tanks (USTs) from the Laurel Bay Military Housing Area.

The Addendum to Well Installation and Sampling Work Plan provides the proposed well installation locations and sampling recommended in the Finding Report.

The documents referenced above have been reviewed with respect to the S.C. Pollution Control Act 48-1-10 and the S.C. Hazardous Waste Management Act, and other appropriate guidance documents.

Please see the attached comments.

CC: BLWM file # 50500

Report of Findings for Laurel Bay Military Housing Area and Addendum to Well Installation and Sampling Work Plan for Laurel Bay Military Housing Area
MCAS
Federal Facilities Groundwater Section
Comments prepared by
Michael W. Danielsen April 5, 2011

Report of Findings for Laurel Bay Military Housing Area

1. **Page 11 Section 6.0, Recommendations**

This section recommends no further action (NFA), annual monitoring, or expansion of the monitoring well network as follows:

NFA for:

- 201 Balsam Street,
- 390 Acorn Drive,
- 391 Acorn Drive,
- 299 Birch Lane,
- 1118 Iris Lane,

Annual groundwater monitoring for benzene, toluene, ethylene, xylene (BTEX), naphthalene, and polyaromatic hydrocarbons (PAH) at:

- 398 Acorn Drive,
- 388 Acorn Drive,
- 441 Elderberry Lane,
- 282 Birch Road,
- 1054 Gardenia Drive,

Expansion of the monitoring well networks and performance of annual groundwater monitoring for 1-methylnapthalene, 2-methylnapthalene, and/or naphthalene at the following:

- 437 Elderberry Lane- Install three additional monitoring wells downgradient of MW133.
- 1472 Cardinal Lane- Install three additional monitoring wells sidegradient and downgradient of MW130 to bound the contaminant plume.

In addition, all new monitoring wells will be sampled for BTEX, naphthalene, and PAH.

D H E C
PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

Division of Waste Management
Bureau of Land and Waste Management

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 Groundwater Monitoring Report-December 2015
Laurel Bay Military Housing Area Multiple Properties
Dated December 2015

Dear Mr. Drawdy,

The South Carolina Department of Health and Environmental Control (the Department) received groundwater data in the above referenced Groundwater Monitoring 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. 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 MIDLANT (via email)
Craig Ehde (via email)

Draft Final Groundwater Monitoring Report

Continue Groundwater Monitoring recommendation	
282 Birch	437 Elderberry
388 Acorn	1054 Gardenia Drive
1472 Cardinal Lane**	
No Further Action recommendation and concurrance	
391 Acorn	398 Acorn

** Resume when demolition is complete