

**2007 ANNUAL MONITORING REPORT
SOIL AND GROUNDWATER REMEDIATION
BUILDING AS-4158
MARINE CORPS AIR STATION,
NEW RIVER, NORTH CAROLINA**

Prepared for:

DEPARTMENT OF THE NAVY
Contract No. N62470-02-D-3260



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Task Order 0061/Shaw Project No. 119909
May 2007

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ACRONYM LIST

AFVR	aggressive fluid-vapor recovery
AST	aboveground storage tank
BQL	Below Laboratory Quantitation Limits
CAP	Corrective Action Plan
Catlin	Catlin and Associates, Inc.
DWM	Division of Waste Management
EI	Engineering and Environment, Inc.
EMD	Environmental Management Division
ft bls	feet below land surface
GTGS	Groundwater Technology Government Services
J.A. Jones	J.A. Jones Environmental Services Company
LNAPL	light non-aqueous phase liquid
Law	Law Engineering and Environmental Services, Inc.
µg/l	micrograms per liter
mg/kg	milligrams per kilogram
mg/m ³	milligrams per cubic meter
MCAS	Marine Corps Air Station
NAVFACENGCOM	Naval Facilities Engineering Command
NCAC	North Carolina Administrative Code
NCDENR	North Carolina Department of Environment and Natural Resources
PAH	Polynuclear Aromatic Hydrocarbon
Paradigm	Paradigm Analytical Laboratories, Inc.
ppm	parts per million
SVE	Soil Vapor Extraction
TPH	Total Petroleum Hydrocarbons
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	Volatile Organic Compound
MW	Monitoring Well
PW	Pumping Well
HP	hydropunch Penetrometers
cfm	cubic feet per minute

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EXECUTIVE SUMMARY

On behalf of the, Naval Facilities Engineering Command, Mid-Atlantic (NAVFAC MIDLANT), Shaw Environmental, Inc. (Shaw) has prepared this Annual Monitoring Report for the Building AS-4158 Site, Marine Corps Air Station New River, North Carolina. **Figure 1.1** presents the location of the base depicting the vicinity of this site. The Air Station is associated with Marine Corps Base (MCB) Camp Lejeune. This report documents monitoring and sampling activities conducted on March 8, 2007.

The site is located on Marine Corps Air Station New River in Onslow County, North Carolina as shown in **Figure 1.2**. The Building AS-4158 site has been assigned incident number 10804 by the North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management (DWM). Previous investigations indicate the site meets criteria as a High Risk site and for Industrial/Commercial land use.

Initially, free phase product was observed at the Building AS-4158 site during the removal of three fuel dispensing USTs on August 18, 1992. Subsequent investigations indicated that petroleum hydrocarbon constituents in soil were limited to the immediate vicinity and downgradient of the former underground storage tank (UST) system, and free phase product was observed in an area further downgradient of the former UST system. Dissolved phase constituents were limited primarily to shallow groundwater. Delineation of the affected soil and groundwater was completed in October 1994.

A Corrective Action Plan (CAP) was prepared by CATLIN Engineers and Scientists (CATLIN) for the Building AS-4158 site in September 1995. The CAP indicated potential receptors were Southwest Creek and its associated marsh, and a drinking water supply well AS-4150 located approximately 650 feet from the site. The CAP recommended installing an air sparge/soil vapor extraction (AS/SVE) system to remediate soil and groundwater at the site. Initial remedial activities included the installation of a passive skimmer to recover free phase product from monitoring well MW-9. The skimmer is no longer present.

In April 1998 an AS/SVE system was installed and remained in operation until December 1999, at which time the treatment system was shut down due to consistently low concentrations of petroleum related constituents. One year of post-operation monitoring was initiated. In February 2001, however, the system was restarted due to an increase in contaminant concentrations in monitoring wells MW-9, MW-11, and MW-13.

From April 1998 through April 2002, J.A. Jones implemented the CAP prepared by CATLIN. The remedial approach consisted of air sparging and soil vapor extraction as well as groundwater monitoring to maintain optimum treatment system performance and track petroleum-impacted groundwater migration to verify remediation progress.

In January 2002 a fuel leak from an underground fuel transfer line was suspected. The underground fuel line was tightness tested in April 2002. The results confirmed a leak, which was found to have occurred in the vicinity of monitoring well MW-9. The release was then reported to the state on April 30, 2002 and repairs were made in November 2002. During that reporting period, product thickness was measured on a regular basis in MW-9 and hand bailing was performed routinely to recover free phase product at this well. Between April 1998 and December 2002 a total of 110 gallons of free phase product was recovered from monitoring well MW-9.

In September 2004, an additional soil assessment was conducted by CATLIN at the site. The investigation indicated that no additional soil remediation activities were needed.

A Remedial Action Optimization and Revised Corrective Action Plan (RAO & RCAP) was conducted at the site by CATLIN in August 2005. The study indicated the site meets criteria for classification as Industrial/Commercial Land Use and High Risk site, based on an inactive water supply well located within 1,000 feet of the site. The study recommended conducting free phase product delineation activities in the vicinity of monitoring well MW-9, deactivate the western AS/SVE line, and reduce the frequency and number of wells included in the groundwater monitoring programs.

In December 2005, the NCDENR accepted alternative recommendations for the RAO & RCAP proposed by MCB Camp Lejeune. The changes included foregoing the free phase product delineation activities in the vicinity of monitoring well MW-9 and instead conducting a risk-based sampling event as an alternative since no free phase product has been present in monitoring well MW-9 since January 2005 (0.02 feet). In addition, MCB requested that the whole AS/SVE system be shut down in January 2006 since sampling data from 2005 indicated that contaminant levels decreased significantly enough to warrant deactivation. All groundwater well concentrations from the last sampling event in July 2005 were below the North Carolina Groundwater Quality Standard (NCGWQS). Recommendation was also made to reduce the site-risk level from high to low since the drinking water supply well AS-4150 was taken offline and shut down. Finally, conduct gauging of site wells for a period of 12 months followed by a groundwater sampling event of select wells based on historical data to monitor post operational performance.

Shaw conducted well gauging at 10 site monitoring wells from January 2006 through March 2007 to confirm that free phase product has been removed and no longer present at the site. These well gauging activities confirm that free phase product is not present at the site.

This 2007 Annual Monitoring Report documents the March 2007 gauging of 18 monitoring wells and sampling of 10 selected monitoring wells. On March 8, 2007, all of the monitoring well concentrations were below the 15A NCAC 2L groundwater quality standards with the exception of benzene in monitoring wells USTAS4158-MW09 at 10.5 µg/l, USTAS4158-MW11 at 8.3 µg/l, and USTAS4158-MW13 at 88.3 µg/l.

SECTION 1.0

INTRODUCTION

On behalf of the Naval Facilities Engineering Command, Mid-Atlantic (NAVFAC MIDLANT), Shaw Environmental, Inc. has prepared this Annual Monitoring Report for the Building AS-4158 Site, Marine Corps Air Station (MCSA) New River, North Carolina (**Figure 1.1**). The purpose of this report is to present the findings and recommendations associated with the groundwater monitoring activities on March 8, 2007. This report and the methods used to acquire the data in support of this report have been prepared in accordance with the NCDENR, DWM, Underground Storage Tank (UST) Section guidelines.

Building AS-4158 is located at the MCAS New River, North Carolina (**Figure 1.2**). **Figure 1.3** provides a vicinity location of the Building AS-4158 site. The facility is used to provide fuel and maintenance to vehicles at the air station. The site is located on Perimeter Street, west of the airfield. The site is generally flat, and most of the area is paved. Building AS-4158 is located at the north end of the site. Currently, two 10,000-gallon aboveground storage tanks (ASTs) used for diesel fuel storage are located towards the southern end of the site. Fuel is transported by way of an underground pipeline from the ASTs to the dispensers located adjacent to Building AS-4158. One 1,000-gallon used oil AST is also in use at the site on the northwest side of Building AS-4158. No permanent surface water bodies are present at the site. The nearest surface water body is Southwest Creek and associated marsh located approximately 1,000 west of the site. The nearest drinking water supply well, well AS-4150, located approximately 650 feet east of the site was taken offline and shut down in 2005.

1.1 SITE HISTORY

According to the Leaking Underground Storage Tank Site Assessment Report, dated October 4, 1994 and prepared by Law, the presence of hydrocarbon material was identified by Environmental and Regulatory Consultants, Inc. during the removal of three 3,000-gallon USTs on August 18, 1992. One of the 3,000-gallon steel USTs supplied gasoline for MCAS vehicles. The other two 3,000-gallon steel USTs supplied diesel fuel for MCAS vehicles. No documentation was made of the age or condition of the USTs at the time of removal. The three USTs were replaced with two 10,000 gallon capacity ASTs, which currently store diesel fuel and are located adjacent to the location of the former USTs.

In 1993, Groundwater Technology Government Services (GTGS) performed a site assessment at Building AS-4158, which included the installation of three monitoring wells. An additional assessment was conducted by Law to evaluate the impact to the groundwater and vadose zone soil caused by the release of petroleum hydrocarbon contaminants from the former USTs. A summary of these site assessments are presented in Section 1.2 Site Assessment and Corrective Action Summary.

An evaluation of appropriate remedial alternatives for the Building AS-4158 site was presented in the CAP, prepared by CATLIN Engineers and Scientists (CATLIN) and dated September 11, 1995. The selected remedial approach at Building AS-4158 consisted of the installation of an AS/SVE system to recover free phase product, coupled with groundwater monitoring to evaluate the migration and attenuation of the dissolved petroleum hydrocarbon constituents from the former UST basin.

The AS/SVE system was installed and activated in April 1998. The system consists of two north-south oriented horizontal AS and SVE wells. **Figure 1.3** presents the AS/SVE system and monitoring wells at the subject site. The system remained operational through December 1999, as dissolved-phase constituent concentrations had decreased to very low concentrations, and measurable free phase product was no longer present at monitoring well MW-9. The system was restarted in February 2001 due to increasing dissolved-phase constituent concentrations.

To monitor the dissolved petroleum hydrocarbon constituents in groundwater, J.A. Jones collected groundwater samples during 19 quarterly events (from April 1998 to January 2003) from the following monitoring wells; MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, MW-8, MW-9, MW-10, MW-11, MW-13, MW-14, MW-15, MW-17 and MW-18. A summary of the groundwater monitoring activities is presented in Section 2.1 Groundwater Monitoring.

In January 2003, J.A. Jones recommended shutting the AS/SVE system down and continued the removal of free phase product from MW-9 until product was not detected during four consecutive quarters. Following four consecutive quarters of no product, quarterly post-operation sampling would be initiated until dissolved petroleum related constituent concentrations consistently meet the site rehabilitation concentrations established by the 15A NCAC 2L groundwater quality standards. However, in January 2003, free phased product was still present in MW-9. Therefore, the AS/SVE system remained in operation.

In January 2004, Shaw Environmental, Inc. submitted an Annual Monitoring Report documenting remedial system operation and groundwater analytical results from April 1998 to January 2003 conducted by J.A. Jones.

In November 2005, Engineering and Environment, Inc. (EEI) submitted an Annual Monitoring Report documenting groundwater remediation and monitoring activities from April 2004 to August 2005 conducted by EEI.

In January 2006, the AS/SVE system was shut down because no free phase product was present in monitoring well MW-9 since January 2005 (0.02 feet) and sampling data from 2005 indicated that contaminant levels had decreased significantly enough to warrant deactivation, and that all groundwater well concentrations were below the NCGWQS during the last sampling event conducted in August 2005. In addition, the drinking water supply well AS-4150 was taken offline and shut down.

Shaw conducted well gauging at 10 site monitoring wells from January 2006 through March 2007 to confirm that free phase product has been removed and no longer present at the site. These well gauging activities confirmed that free phase product was no longer present at the site.

In March 2007, well gauging at 18 site monitoring wells and groundwater sampling of 10 select wells based on historical data were initiated to monitor post operational performance.

1.2 SITE ASSESSMENT ACTIVITIES SUMMARY

In March and April of 1993, GTGS performed a three well site check, which involved the advancement of three soil borings that were converted to monitoring wells MW-1, MW-2, and MW-3. Each of the monitoring wells was installed to a depth of approximately 17 feet below ground surface (ft-bgs) and completed using 15 feet of screened section. Groundwater samples were collected from each of the three monitoring wells and were analyzed for volatile aromatic hydrocarbons using USEPA Method 602. Dissolved hydrocarbons were detected in each of the three groundwater samples.

In December 1993 and January 1994, as part of the site assessment activities, Law installed 15 hydropunch penetrometers, 12 Type II groundwater monitoring wells, three Type III groundwater monitoring wells, and one 6-inch diameter recovery well to evaluate site geology and determine the extent of petroleum-impacted groundwater and unsaturated soil. The monitoring wells and recovery well were designated as MW-4 through MW-18 and PW-1, respectively.

During field investigation work documented by the Site Assessment Report, Law collected soil samples from the 16 borings advanced for the installation of the Type II and Type III groundwater monitoring wells as well as the recovery well.

- Two soil samples were collected from each soil boring for MW-4, MW-5, MW-7 through MW-18 and PW-1. The samples were analyzed for gasoline range and diesel range TPH using USEPA Methods Modified 8015/5030 and 8015/3550, respectively.
- Three soil samples were collected from the soil boring for MW-6 and analyzed for gasoline range and diesel range TPH using USEPA Method Modified 8015/5030 and 8015/3550, respectively.

Two soil samples were retained from each soil boring for either on-site or off-site laboratory analysis. The on-site laboratory was owned and operated by Geochem, Incorporated located in Morrisville, North Carolina. All off-site samples were submitted to Law Environmental National Laboratories in Pensacola, Florida. The laboratory results are summarized below:

- TPH-gasoline was detected in MW-4 (1.2 mg/kg), MW-9 (180 mg/kg), and MW-13 (0.87 mg/kg). All except for MW-9 were below the NCDENR action levels of 10 mg/kg for TPH-gasoline.
- TPH-diesel was detected in MW-9 (3,400 mg/kg), MW-11 (17 mg/kg), MW-15 (3.3 mg/kg), and MW-17 (5.7 mg/kg). All except for MW-9 were below the NCDENR action levels of 40 mg/kg for TPH-diesel.

Type II groundwater monitoring wells, designated MW-4, MW-5, MW-6, MW-7, MW-10, MW-12, MW-14 were installed to a depth of 16.5 ft-bgs completed with a 10-foot section of well screen. Type II groundwater monitoring wells, designated MW-8, MW-9 (product recovery well), MW-11, MW-13, and MW-15 were installed to a depth of 17 ft-bgs completed with a 10 foot section of well screen. Type III groundwater monitoring wells, designated MW-16 through MW-18 were installed to a depth of 50.5 ft bls completed with a 5 foot section of well screen. In addition, the pumping well, designated PW-1 was installed to a depth of 30 ft-bgs completed with a 20 foot section of well screen set at the well completion depth.

In December 1993, 10 groundwater samples were collected using a Hydropunch sampling probe to provide delineation information concerning the dissolved petroleum hydrocarbon constituents and LNAPL plume at Building AS-4158. Groundwater samples were collected by driving the Hydropunch probe through the unsaturated zone into the water bearing zone and then opening the Hydropunch to allow groundwater to enter the sample chamber. A small-diameter, decontaminated Teflon bailer was then lowered into the chamber to collect the samples. In addition, during December 1993 and January 1994, groundwater samples were collected from monitoring wells MW-1 through MW-18 and PW-1. The samples were analyzed for volatile aromatic hydrocarbons using USEPA Method 601/602 and USEPA Method 625 (reporting Method 610 analyte list).

Petroleum hydrocarbon constituents were detected in the groundwater samples collected from hydropunch penetrometers HP-1 through HP-8 and groundwater monitoring wells MW-2 through MW-4, MW-7, MW-9 (former product recovery well) through MW-17, and PW-1. According to the CAP dated September 11, 1995, prepared by Catlin, the primary groundwater contaminants identified at the site were benzene, ethylbenzene, acenaphthene, anthracene, benzo(a)anthracene, chrysene, fluoranthene, 1-Methylnaphthalene, 2-Methylnaphthalene, bromoform, dibromochloromethane, bromodichloromethane, and chloroform. The maximum detected groundwater concentrations of these contaminants, as presented in the CAP, with their corresponding site rehabilitation levels, as established in NCAC Title 15A Subchapter 2L groundwater quality standards, are provided as follows:

North Carolina Groundwater Quality Standards and Site Target Cleanup Concentrations

Groundwater Constituent	Maximum Detected Concentration (µg/l)	Site Rehabilitation Concentration (µg/l)
Benzene	1,400	1.0
Ethylbenzene	1,700	29
Acenaphthene	2.8	80
Anthracene	1.2	2,100
Benzo(a)anthracene	18	.05
Chrysene	7.0	5
Fluoranthene	2.7	280
1-Methylnaphthalene	3.4	*
2-Methylnaphthalene	2.9	28
Bromoform	2.3	0.19
Dibromochloromethane	1.6	*
Bromodichloromethane	0.7	*
Chloroform	2.7	0.00019

The asterisk (*) indicates that no numerical standard has been established. As a result, according to NCAC Title 15A Subchapter 2L, the target rehabilitation concentration is the laboratory detection limit.

According to the CAP, dated September 11, 1995, prepared by Catlin, contaminants of concern identified in soil at the site are TPH-gasoline range (EPA Method 5030) and TPH-diesel range (EPA Method 3550). The maximum detected soil concentrations for these TPH ranges, as presented in the CAP, with their corresponding site rehabilitation levels, are provided below:

Soil Maximum Detected Concentrations and Site Target Cleanup Concentrations

Soil Constituent	EPA Method	Maximum Detected Concentration	Site Rehabilitation Concentration
TPH Gasoline range	5030	180 mg/Kg	40 ppm
TPH Diesel range	3550	3,400 mg/Kg	160 ppm

SECTION 2.0

FIELD PROGRAM

This section contains the summaries of the groundwater monitoring, soil assessments, AS/SVE system performance, and free phase product recovery during the period of April 1998 through March 2007.

2.1 GROUNDWATER MONITORING SUMMARY (1998-2007)

Groundwater elevations were measured monthly from April 1998 to January 2003 in each of the 19 groundwater monitoring wells, MW-1 through MW-18 and pumping well PW-1 by J.A. Jones. Groundwater elevations were measured monthly from April 2004 to August 2005 in each of 17 groundwater monitoring wells, MW-1 through MW-11, and MW-13 through MW-18 by EEI. January 4, 2005 was the last event that free phase product was detected at the site at a thickness of 0.02 feet in monitoring well MW-9. Since then, free phase product has not been detected at the site. Groundwater elevations were measured monthly from January 2006 to January 2007 in each of 10 groundwater monitoring wells, MW-4 through MW-7, MW-9 through MW-11, MW-13, MW-14, and MW-16 by Shaw, which confirmed that free phase product was no longer present at the site. The groundwater elevation data for April 1998 through March 2007, including the depth to water and free phase product, are presented in **Table 1.1**. The monitoring wells at the site were resurveyed in August 2006 and the groundwater elevations were calculated with the new survey data. The groundwater sample collection field logs for the current groundwater gauging from March 8, 2007 are provided in **Appendix A**.

2.2 MARCH 2007 GAUGING EVENT

Prior to groundwater sample collection depth to groundwater measurements were measured on March 8, 2007 from 18 monitoring wells (USTAS4158-MW01 through USTAS4158-MW18). Groundwater measurements were not obtained from monitoring well USTAS4158-MW02 since it was dry and monitoring well USTAS4158-MW12 had been covered with asphalt. On March 8, 2007, depth to groundwater ranged from 6.50 ft-bgs (MW-3) to 10.40 ft-bgs (MW-13) in the shallow monitoring wells that were gauged. **Figure 2.1** presents the groundwater elevation contour map for March 2007 from the Type II (shallow) monitoring wells. Groundwater elevations for the shallow wells ranged from 14.56 feet National Geodetic Vertical Datum (NGVD) in monitoring well MW-6 to 12.83 feet NGVD in monitoring well MW-13. The shallow groundwater flows from the southwest to the northeast at a horizontal hydraulic gradient of 0.0135 ft/ft from MW-5 to MW-13. No free phase product was detected in any of the monitoring wells during the March 8, 2007 gauging event.

2.3 SOIL ASSESSMENT SUMMARY

According to the UST closure report prepared by ERC, soils located beneath the USTs were not submitted for laboratory analysis due to the apparent presence of free phase product on the water that accumulated with the excavation.

In March and April of 1993, GTGS performed a three well site check, which involved the advancement of three soil borings that were converted to monitoring wells MW-1, MW-2, and MW-3. Soil samples were collected from each of these borings for laboratory analysis of total petroleum hydrocarbons (TPH) as diesel and gasoline. Laboratory results from the soil samples collected from the borings associated with MW-1 and MW-3 below detectable concentrations of TPH-Diesel and TPH-Gasoline. TPH-Diesel concentrations of 99 mg/Kg and below detectable concentrations of TPH-Gasoline were indicated in the soil sample from MW-2.

During field investigation work documented by the Site Assessment Report in October 1994, Law collected soil samples from the 16 borings advanced for the installation of the groundwater monitoring wells on the subject site. The laboratory results are summarized below:

- TPH-gasoline was detected in soil from boreholes MW-4 (1.2 mg/kg), MW-9 (180 mg/kg), and MW-13 (0.87 mg/kg). All except for MW-9 were below the NCDENR action level of 10 mg/kg for TPH-gasoline.
- TPH-diesel was detected in soil from boreholes MW-9 (3,400 mg/kg), MW-11 (17 mg/kg), MW-15 (3.3 mg/kg), and MW-17 (5.7 mg/kg). All except for MW-9 were below the NCDENR action level of 40 mg/kg for TPH-diesel.

Based on a review of the above referenced reports CATLIN identified soil contamination above the final clean-up goal of 40 mg/Kg as TPH-Gasoline and 160 mg/Kg as TPH-Diesel established within the CAP at only one location, monitoring well MW-9.

In September 2004, a soil assessment was conducted by CATLIN for Building AS-4158. Soil samples were collected from sixteen locations in the vicinity of the fuel dispensers, inactive pipelines associated with the former USTs, and monitoring wells MW-2 and MW-9 (location of historical soil contamination). All sixteen samples were analyzed for EPA Method 8260B/5035, EPA Method 8270, and MADEP VPH/EPH. All samples detected concentrations either below the laboratory detection limit or at levels below the lowest Maximum Soil Contaminant Concentration (MSCC). The results of the soil samples collected during the soil assessment activities indicated that there was no soil contamination above the lowest MSCC for soils in the vicinity of the former USTs and pipelines. Therefore, no additional soil remediation activities were warranted at that time.

2.4 AS/SVE SYSTEM PERFORMANCE SUMMARY

The AS/SVE system was designed to reduce the dissolved petroleum hydrocarbon groundwater concentrations to site rehabilitation levels regulated by the NCDENR. These site rehabilitation levels are provided in the NCAC Title 15A Subchapter 2L.

The system was started April 4, 1998 and operated continuously until it was shut down on December 29, 1999. The system was shut down because a measurable volume of free phase product had not been detected in recovery well MW-9 since December 10, 1998, and dissolved concentrations of petroleum related constituents had remained at very low concentrations. Beginning in October 2000, review of analytical results from groundwater samples collected during the quarterly post-operation monitoring well sampling event indicated that benzene was detected in samples from monitoring wells MW-9, MW-11, and MW-13 at slightly higher concentrations than those detected during the previous quarter (July 2000). Overall, the concentration of benzene in MW-9 (17 µg/l, January 2000; to 100 µg/l, October 2000) had increased by an order of magnitude since the system's shut down. Concentrations of benzene (BQL to 300 µg/l), ethylbenzene (BQL to 550 µg/l), and total xylenes (BQL to 1,280 µg/l) detected in MW-13 had increased several orders of magnitude since the remedial system was shutdown. The system was restarted in February 2001 due to these increasing dissolved-phase constituent concentrations.

To monitor the effectiveness of the AS/SVE system in the reduction of dissolved petroleum hydrocarbon constituents in groundwater, J.A. Jones collected quarterly groundwater samples from the site monitoring wells from March 1998 to January 2003. Subsequently, EEI collected quarterly groundwater samples from the site monitoring wells from April 2004 to August 2005. These wells were used to evaluate the migration of dissolved petroleum hydrocarbon constituents from the former UST basin. Review of the analytical results from these quarterly groundwater samples indicate that five monitoring wells (MW-2, MW-9, MW-10, MW-11 and MW-13) exceeded North Carolina Groundwater Quality Standards (NCGWQS) in March 1998, four monitoring wells (MW-2, MW-9, MW-11 and MW-13) exceeded NCGWQS in May 1998, and only three monitoring wells (MW-9, MW-11 and MW-13) exceeded NCGWQS from June 1998 through January 2005, with the exception of monitoring well MW-1 exceeding NCGWQS during the October 1998 event only. Only monitoring well MW-9 exceeded the NCGWQS in April 2005 and none of the monitoring wells exceeded the NCGWQS in July 2005. All groundwater samples were delivered to Paradigm and Accutest laboratories, respectively, for J.A. Jones for EEI, and analyzed for volatile aromatic hydrocarbons using USEPA Method 602 and USEPA Method 625 (reporting Method 610 analyte list).

The AS/SVE system was operational from February 2001 to March 2004. The AS/SVE system was down for repairs for two months and operational again from May 2004 to December 2005. The AS/SVE system was shut down on January 9, 2006 since no free phase product was present at the subject site and sampling data from 2005 indicated that contaminant levels decreased significantly enough to warrant deactivation, in which all groundwater well concentrations were below the NCGWQS during the last sampling event before deactivation in July 2005.

2.5 FREE PHASE PRODUCT RECOVERY SUMMARY

Free phase product recovery was initially recommended during the Site Assessment and initiated in April 1995. According to the CAP prepared by CATLIN, from April 1995 to July 1995, 3.51 gallons of free phase product had been recovered from MW-9 using a passive skimmer. Free phase product gauging activities conducted July 13, 1995 indicated that product thickness in MW-9 had decreased from 6.03 feet to 0.02 feet. Measurable free phase product thickness was not identified in any other on-site well during site assessment and corrective action activities.

Free phase product was monitored on a monthly basis starting in April 1998 when the AS/SVE system was installed. Free phase product was detected in monitoring well MW-9 at the following thicknesses during system operation: 0.38 ft in June 1998, 0.34 ft in July 1998, 0.03 ft in August 1998, 0.02 ft in September 1998, 0.09 ft in October 1998, and 0.02 ft in December 1998. No free phase product was present in monitoring well MW-9 during all of 1999 and the AS/SVE system was shut down on December 29, 1999.

No free phase product was present in monitoring well MW-9 during all of 2000, however, due to increasing dissolved-phase constituent concentrations in monitoring wells MW-9 and MW-13, an AFVR event was conducted on monitoring wells MW-9 and MW-13 on December 14, 2000. This AFVR event recovered 10 gallons of free phase product and 1.73 gallons of VOCs as gasoline and diesel. Based on the increases in concentrations of volatile and semi-volatile organic compounds in groundwater samples collected from monitoring wells MW-9, MW-11, and MW-13, the AS/SVE system was re-started on February 13, 2001. On February 2, 2001, 0.2 gallons of free phase product was recovered from passive skimmers in monitoring wells MW-2 and MW-3. No free phase product was present during the rest of the year 2001 in any monitoring wells.

The AS/SVE system was operational from February 2001 to March 2004. The AS/SVE system was down for repairs for two months and operational again from May 2004 to December 2005.

During the January 2002 quarterly sampling event, free phase product was discovered in MW-9 at a thickness of 2.9 feet. This was the first time free phase product had been detected in this well since December 1998. Tightness testing completed in April 2002 confirmed a leak in the underground transfer lines from an active AST system located adjacent to MW-9. Subsequent repairs were made once funding was received in November 2002.

Free phase product was detected in monitoring well MW-9 at the following thicknesses during 2002-2003: 2.9 ft in January 2002, 2.5 ft in February 2002, 1.53 ft in March 2002, 0.80 ft in April 2002, 0.69 ft in July 2002, 1.08 ft in August 2002, 0.15 ft in September 2002, 1.03 ft in October 2002, 1.21 ft in November 2002, and 2.37 ft in January 2003.

Approximately 67.03 gallons of product was removed from MW-9 in the period from January to December 2002 via hand bailing, and 5 gallons of free phase product was removed via vacuum truck. The total amount of free phase product recovered from the site from April 1998 to December 2002 was 110 gallons.

Free phase product was detected in monitoring well MW-9 at the following thicknesses during 2004-2005: 0.01 ft in May 2004, 0.10 ft in July 2004, and 0.02 ft in January 2005. The AS/SVE system was shut down in January 2006 since no free phase product was present at the subject site and all groundwater well concentrations were below the NCGWQS during the last sampling event before deactivation in July 2005. Free phase product measurements from April 1998 through March 2007 are presented in **Table 1.1**.

SECTION 3.0

ANALYTICAL SUMMARY

Groundwater samples were collected quarterly from the site monitoring wells between March 1998 and January 2003 by J.A. Jones and from April 2004 through August 2005 by EEI. Shaw collected samples in March 2007 from ten selected monitoring wells based on historical data to monitor post operational performance. Samples were analyzed for VOCs, PAHs, and lead. This section summarizes these activities.

3.1 GROUNDWATER SAMPLING SUMMARY (1998-2007)

The groundwater monitoring well sampling events were completed in March 1998, May 1998, June 1998, July 1998, October 1998, January 1999, February 1999, April 1999, May 1999, July 1999, October 1999, January 2000, April 2000, July 2000, October 2000, January 2001, April 2001, July 2001, October 2001, January 2002, April 2002, and January 2003 by J.A. Jones. Additional groundwater monitoring well sampling events were completed in April 2004, July 2004, October 2004, January 2005, April 2005, and July 2005 by EEI. No sampling was conducted in 2006. Shaw collected samples from the monitoring wells in March 2007.

3.2 GROUNDWATER SAMPLING (MARCH 2007)

On March 8, 2007, a minimum of three well volumes was purged from each monitoring well prior to groundwater sample collection using low flow methods. Groundwater samples were then collected from monitoring wells USTAS4158-MW01, USTAS4158-MW07, USTAS4158-MW08, USTAS4158-MW09, USTAS4158-MW10, USTAS4158-MW11, USTAS4158-MW13, USTAS4158-MW14, USTAS4158-MW15, and USTAS4158-MW17. The samples were placed in preserved containers supplied by the laboratory. The collected samples were immediately placed in a cooler with ice and sent via overnight courier to Accutest Laboratory located in Orlando, Florida. The samples were analyzed for VOCs using EPA Method 601/602 targeting BTEX, MTBE, and trihalomethanes), PAHs only using EPA Method 625, and lead using EPA Method 6010B. Copies of the groundwater sample collection field logs are provided in **Appendix A**.

Analytical results are summarized below:

- *VOCs Method 601/602 Results:* Analytical results from the groundwater samples did not detect VOC compounds above NC 2L Groundwater Quality Standards (GWQS) in any of the monitoring wells with the exception of USTAS4158-MW09 (benzene, 10.5 µg/l), USTAS4158-MW11 (benzene, 8.3 µg/l), and

USTAS4158-MW13 (benzene, 88.3 µg/l).

- *PAHs Method 625 Results:* Analytical results from the groundwater samples did not detect PAH compounds above NC 2L GWQS in any of the monitoring wells.
- *Lead Method 6010B Results:* Analytical results from the groundwater samples did not detect lead in excess of North Carolina 2L GWQS in any of the monitoring wells.

Groundwater sample analytical results are provided in **Table 3.1** and presented on **Figure 3.1**. The groundwater sample laboratory analytical reports are provided in **Appendix B**.

3.3 HISTORICAL GROUNDWATER SAMPLING (1998- 2007)

The following paragraphs provide a history of compounds detected at concentrations above NCDENR groundwater quality standards from each well:

MW-1: Benzene was detected at 6 µg/L in groundwater samples collected from MW-1 on October 21, 1998. The detected benzene concentration exceeded the NCDENR groundwater quality standard of 1 µg/L. Since that sampling event, all chemicals of concern (COCs) have been below the site rehabilitation concentrations for the site as well as below laboratory quantitation limits (BQL) in groundwater samples from MW-1.

MW-2: VOCs were detected above the NCDENR groundwater quality standard in groundwater samples collected from monitoring well MW-2 during the March 27, 1998 and May 15, 1998 sampling events. The detected benzene concentration of 23 µg/L in the May 15, 1998 sample was above the NCDENR groundwater quality standard of 1 µg/L. Detections of ethylbenzene at concentrations of 240 µg/L and 320 µg/L and total xylenes at concentrations of 1,020 µg/L and 1,100 µg/L, were above their respective NCDENR groundwater quality standard of 29 µg/L and 530 µg/L, during both sampling events of March 27, 1998 and May 15, 1998, respectively. Since the May 15, 1998 sampling event, all COCs have been below the site rehabilitation concentrations for the site as well as BQL in groundwater samples from MW-2.

MW-9: VOCs including benzene and ethylbenzene were detected above the NCDENR groundwater quality standard of 1 µg/L and 29 µg/L, respectively, during the sampling events conducted from March 1998 through January 2003. Benzene was recorded at a maximum concentration of 180 µg/L during the April 17, 2001 sampling event while ethylbenzene concentrations were recorded at a maximum concentration of 86 µg/L during the February 16, 1999 sampling event. Except for two other sampling events; May

1999 and January 2003 when ethylbenzene was detected at concentrations of 61 µg/L and 43 µg/L, the compound has been below the regulatory limit.

Benzene was detected above the NCDENR groundwater quality standard of 1 µg/L at a maximum concentration of 20.3 µg/L during the latter sampling events conducted from April 2004 through March 2007. Since the AS/SVE system was shut down in January 2006, benzene has been detected above the NCDENR groundwater quality standard in March 2007 at a concentration of 10.5 µg/L.

The following PAHs have been detected above their respective NCDENR groundwater quality standard limits in groundwater samples collected from monitoring well MW-9.

- Naphthalene was detected at concentrations of 860 µg/L and 1,500 µg/L in two sampling events on October 23, 2002 and January 14, 2003.
- The maximum phenanthrene concentration detected in MW-9 was 11,000 µg/L during the February 16, 1999 sample event. The NCDENR groundwater quality standard for phenanthrene is 210 µg/L. Although the earlier sampling events detected phenanthrene concentrations in MW-9 (850 µg/L and 1,300 µg/L) exceeding regulatory standards, phenanthrene was BQL in latter sampling events conducted by EEI (April 2004 through August 2005).
- Anthracene was detected at a concentration of 11,000 µg/L during the February 16, 1999 sampling event. This is above the NCDENR groundwater quality standard of 2,100 µg/L. Since that time anthracene has not exceeded the groundwater quality standard.
- 1-methylnaphthalene was detected at a maximum concentration of 17,000 µg/L during the February 16, 1999 sampling event. This is above the NCDENR groundwater quality standard. The compound was BQL in latter sampling events conducted by EEI (April 2004 through August 2005).
- 2-methylnaphthalene was detected at a maximum concentration of 90,000 µg/L above the NCDENR groundwater quality standard of 28 µg/L during the February 16, 1999 sampling event. The compound was BQL in latter sampling events conducted by EEI (April 2004 through August 2005).

Free phase product was identified in well MW-9 from June 1998 through December 1998 at a thickness ranging from 0.02 feet to 0.38 feet. Product was not observed in the well again until January 15, 2002 when 2.9 feet of free phase product was measured in the well. Free phase product was consistently observed in the well at a thickness ranging from 0.15 feet to 2.5 feet from February 2002 through January 2003. Free phase product was detected in monitoring well MW-9 at the following thicknesses during 2004-2005: 0.01 ft in May 2004, 0.10 ft in July 2004, and 0.02 ft in January 2005. Free phase product has not been detected since January 2005.

MW-10: Benzene was detected at a concentration of 230 µg/L in the groundwater sample collected during the March 27, 1998 sampling event. Benzene has not exceeded the groundwater quality standard of 1 µg/L since that time.

During the initial sampling event on March 27, 1998 the PAH constituents naphthalene (26 µg/L) and 1-methylnaphthalene (12 µg/L) exceeded their respective groundwater quality standard. Since then, all PAH constituents have consistently been BQL.

MW-11: Benzene consistently exceeded the NCDENR groundwater quality standard of 1 µg/L at monitoring well MW-11, being detected at a maximum concentration of 250 µg/L (March 1998) with the exception of four sample events. Since the AS/SVE system was shut down in January 2006, benzene has been detected above the NCDENR groundwater quality standard in March 2007 at a concentration of 8.3 µg/L.

MW-13: VOCs including benzene, ethylbenzene, toluene, and total xylenes were detected above the NCDENR groundwater quality standards.

- Benzene was detected at a maximum concentration of 1,700 µg/L during the March 27, 1998 sampling event. This is above the NCDENR groundwater quality standard of 1 µg/L. During the last sampling event in March 2007, benzene was detected above the NCDENR groundwater quality standard at a concentration of 88.3 µg/L.
- Ethylbenzene was detected at a maximum concentration of 550 µg/L during the October 18, 2000 sampling event. This is above the NCDENR groundwater quality standard of 29 µg/L. Ethylbenzene concentrations have not exceeded the groundwater quality standard since the January 2001 sampling event.
- Toluene was detected at a concentration of 1,300 µg/L above the NCDENR groundwater quality standard of 1,000 µg/L during only one sampling event (June 24, 1998).
- Total xylenes exceeded the groundwater quality standard in three sampling events (March 27, 1998, 580 µg/L; June 24, 1998, 2,020 µg/L; and October 18, 2000, 1,280 µg/L) The groundwater quality standard for total xylenes is 530 µg/L. Total xylenes concentrations have not exceeded groundwater quality standards since the October 2000 sampling event.

The PAHs naphthalene, 1-methylnaphthalene and 2-methylnaphthalene were also detected above the groundwater quality standard in groundwater samples from this well.

- Naphthalene concentrations exceeded the groundwater quality standard of 21 µg/L during the March 27, 1998 (47 µg/L), June 24, 1998 (64 µg/L), April 19, 1999 (36 µg/L), and October 18, 2000 (90 µg/L) sampling events. Naphthalene concentrations have not exceeded groundwater quality standards since the October 2000 sampling event.

- 1-methylnaphthalene concentrations exceeded the groundwater quality standard of the laboratory quantitation limit during the April 19, 1999 (22 µg/L) and October 18, 2000 (14 µg/L) sampling events. 1-methylnaphthalene concentrations have not exceeded groundwater quality standards since the October 2000 sampling event.
- Only one sample collected on April 19, 1999 detected 2-methylnaphthalene (32 µg/L) at a concentration above the groundwater quality standard of 28 µg/L.

Volatile aromatic hydrocarbon (VOC) and polynuclear aromatic hydrocarbon (PAH) constituents were not detected above NCDENR groundwater quality standards in samples collected from monitoring wells MW-3, MW-4, MW-5, MW-7, MW-8, MW-12, and MW-14 through MW-18, during any of the sampling events conducted from March 1998 through March 2007. VOCs and PAHs were detected in MW-1 and MW-2 only during the earlier sampling events (1998).

Appendix C presents a historical summary of detected contaminant concentrations in the groundwater samples collected from the on-site groundwater monitoring wells from March 1998 through March 2007.

3.2 AIR SAMPLING

The air quality effluent samples, collected on a monthly basis for the first quarter after start-up and quarterly thereafter from the soil vapor extraction system, were delivered by overnight carrier to Paradigm and analyzed for volatile aromatic hydrocarbons using USEPA Method 18.

Only one sample from the soil vapor extraction system effluent contained contaminant concentrations above the laboratory quantitation limits. The SVE sample taken April 22, 1998 had a total xylene concentration of 17.9 milligrams per cubic meter (mg/m³). Since then, there have been no contaminants detected in the SVE system effluent.

SECTION 4.0

CONCLUSIONS AND RECOMMENDATIONS

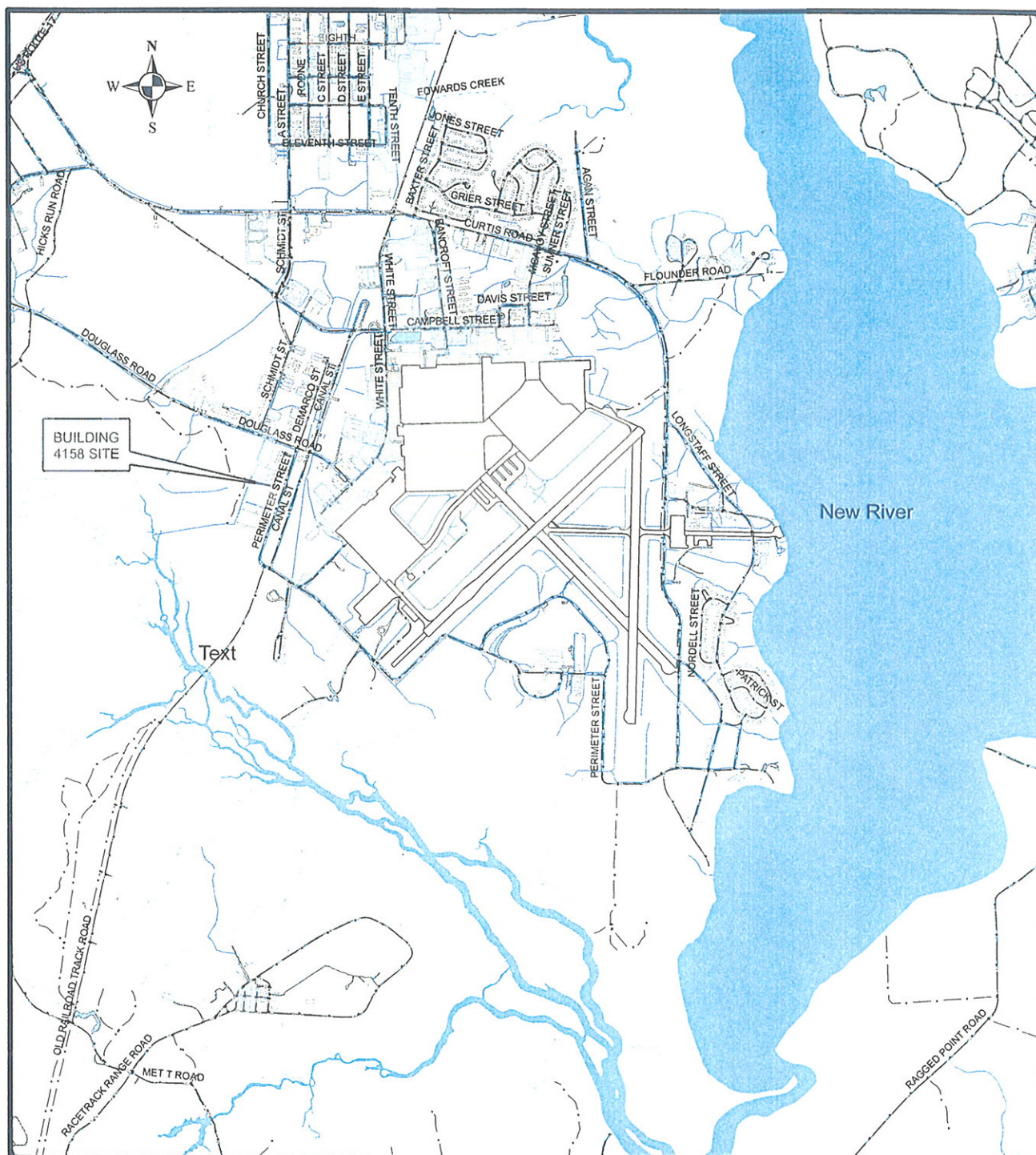
Shaw conducted well gauging at 10 site monitoring wells from January 2006 through March 2007 to confirm that free phase product has been removed and no longer present at the site. These well gauging activities confirm that free phase product is not present at the site.

During the last groundwater sampling event on March 8, 2007, all of the monitoring well concentrations were below the 15A NCAC 2L groundwater quality standards with the exception of benzene in monitoring wells USTAS4158-MW09 at 10.5 µg/l, USTAS4158-MW11 at 8.3 µg/l, and USTAS4158-MW13 at 88.3 µg/l.

Post-operation monitoring was initiated from January 2006 to March 2007 with the AS/SVE system shut down. The sampling event conducted in March 2007 indicates a rebound in contaminant concentrations within the dissolved petroleum contaminant plume since shutdown of the system.

Shaw recommends discontinuing monthly gauging of the monitoring wells since free phase product has been removed and is no longer present at the site. Shaw recommends to continue quarterly gauging and sampling 10 site monitoring wells (USTAS4158-MW01, USTAS4158-MW07, USTAS4158-MW08, USTAS4158-MW09, USTAS4158-MW10, USTAS4158-MW11, USTAS4158-MW13, USTAS4158-MW14, USTAS4158-MW15, and USTAS4158-MW17) to monitor the area in and around the current dissolved groundwater plume. The wells will be analyzed for Method 601/602 (targeting BTEX, MTBE, and trihalomethanes), Method 625 (SVOCs for PAHs only), and Method 3030C (lead).

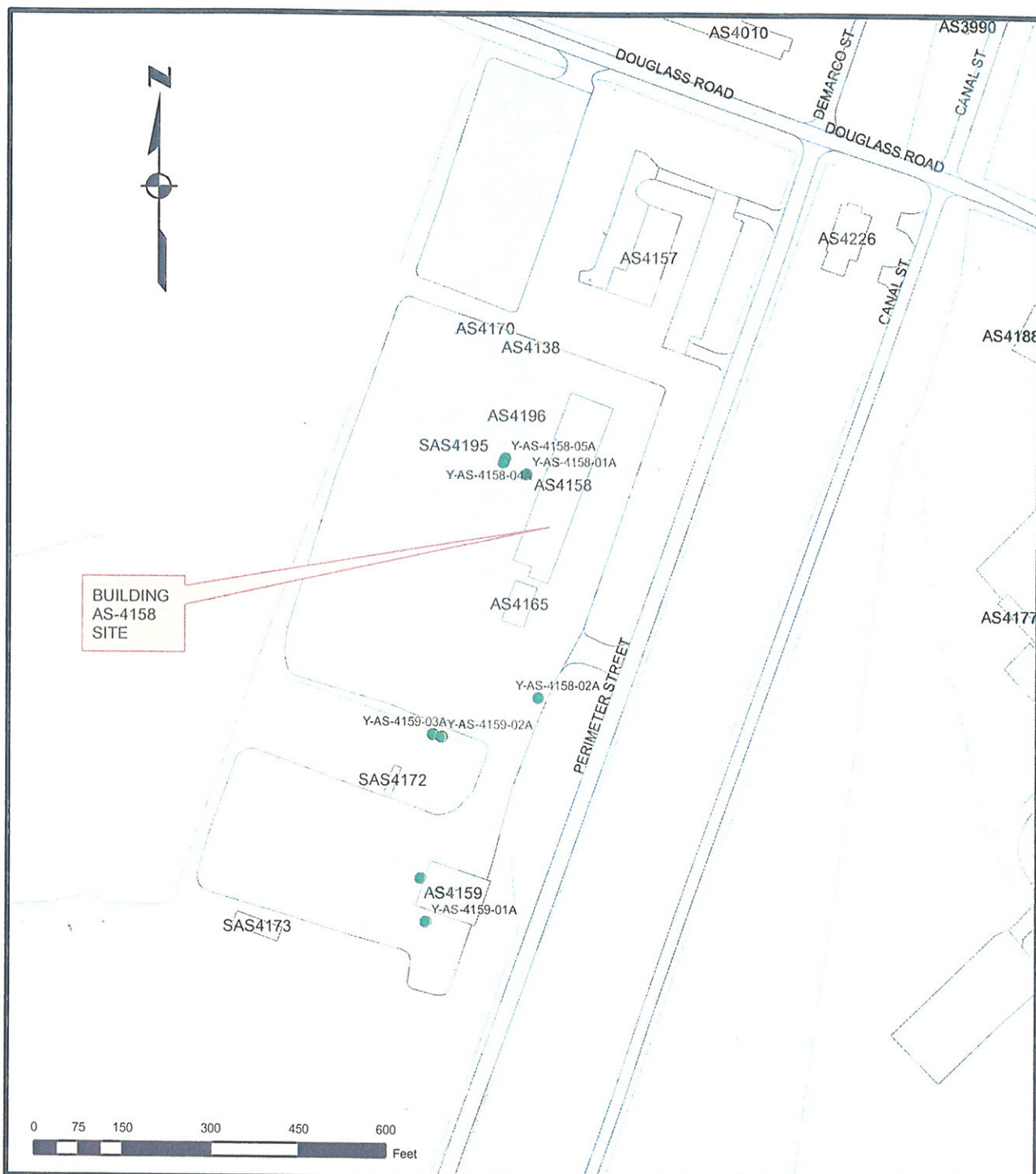
FIGURES



0 750 1,500 3,000 4,500 6,000
Feet

 **Shaw**™ Shaw Environmental, Inc.

FIGURE 1.1
SITE VICINITY MAP
BUILDING AS-4158
ANNUAL MONITORING REPORT 2006
NEW RIVER AIR STATION, NC



Legend

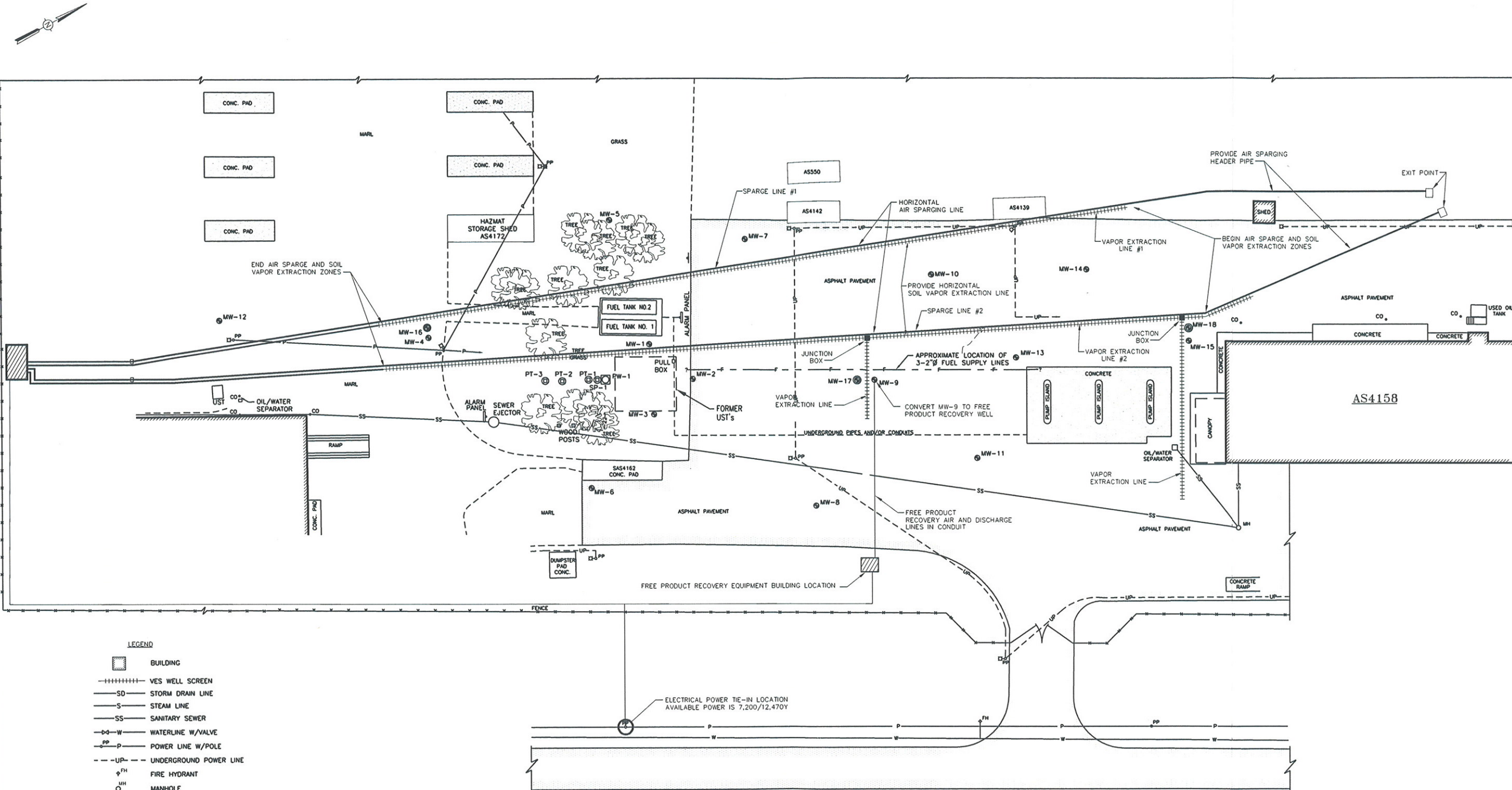
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- buildings_general_area
- vehicle_parking_area
- road_area
- ditch_aqueduct_centerline



Shaw™ Shaw Environmental, Inc.

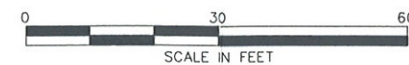
FIGURE 1.2
SITE LOCATION MAP
BUILDING AS-4158
ANNUAL MONITORING REPORT 2006
NEW RIVER AIR STATION, NC

File: Q:\LEJUNE-6-05\RAC-IV TO-61_BLDG_4158_MAR-07_REPORT\AS4158-FIG1-3.dwg
Plot Date/Time: Apr 19, 2007 - 2:19pm
Plotted By: John.Lange



SITE PLAN

- SURVEY NOTES:**
- VERTICAL DATUM IS BASED ON EXISTING MILITARY CONTROL MONUMENT PW-4 WITH A LISTED ELEVATION OF 21.75 FEET (MSL); NORTH CAROLINA STATE COORDINATES FOR PW-4 ARE 352,078.63(M) NORTH AND 2,463,421.81(M) EAST. STATION PW-4 IS A 2" BRASS DISK SET IN 10" DIAMETER CONCRETE FLUSH WITH THE GROUND. THE STATION IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF PERIMETER ROAD AND THE OLD RAILROAD BED, 35.0 FEET SOUTH OF THE EDGE OF PERIMETER ROAD AND 20.0 FEET WEST OF THE EDGE OF THE OLD RAILROAD BED.
 - SURVEY CONTROL POINTS ARE BASED ON AN ASSUMED DATUM AND MAGNETIC NORTH. THE COORDINATES AND THEIR RESPECTIVE ELEVATIONS ARE AS FOLLOWS:
- | POINT | NORTH | EAST | ELEVATION (MSL) | DESCRIPTION |
|-------|---------|---------|-----------------|-------------|
| 1. | 5000.00 | 5000.00 | 23.93 | PK NAIL |
| 2. | 4837.34 | 4906.09 | 23.98 | PK NAIL |
| 3. | 4722.30 | 4839.87 | 23.35 | PK NAIL |
| 4. | 4634.21 | 4788.01 | 22.75 | #120 NAIL |
| 5. | 4504.84 | 4706.91 | 22.44 | #120 NAIL |



REFERENCE: J. A. JONES MONITORING REPORT.

DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND	NORFOLK, VIRGINIA
NAVAL STATION	ATLANTIC DIVISION	
ANNUAL MONITORING REPORT		
BUILDING AS4158		
CAMP LEJUNE, NORTH CAROLINA		
SITE PLAN		
SCALE:	AS SHOWN	SIZE:
DELIVERY ORDER NO.	0061	
CONSTR. CONTRACT NO.	N62470-02-D-3260	
NAVFAC DRAWING NO.		
SHEET I.D.		

1.3



PROJECT NO. 845823

CHECKED BY RBK
APPROVED BY

DESIGNED BY RBK
DRAWN BY JEL

REV

DATE

BY

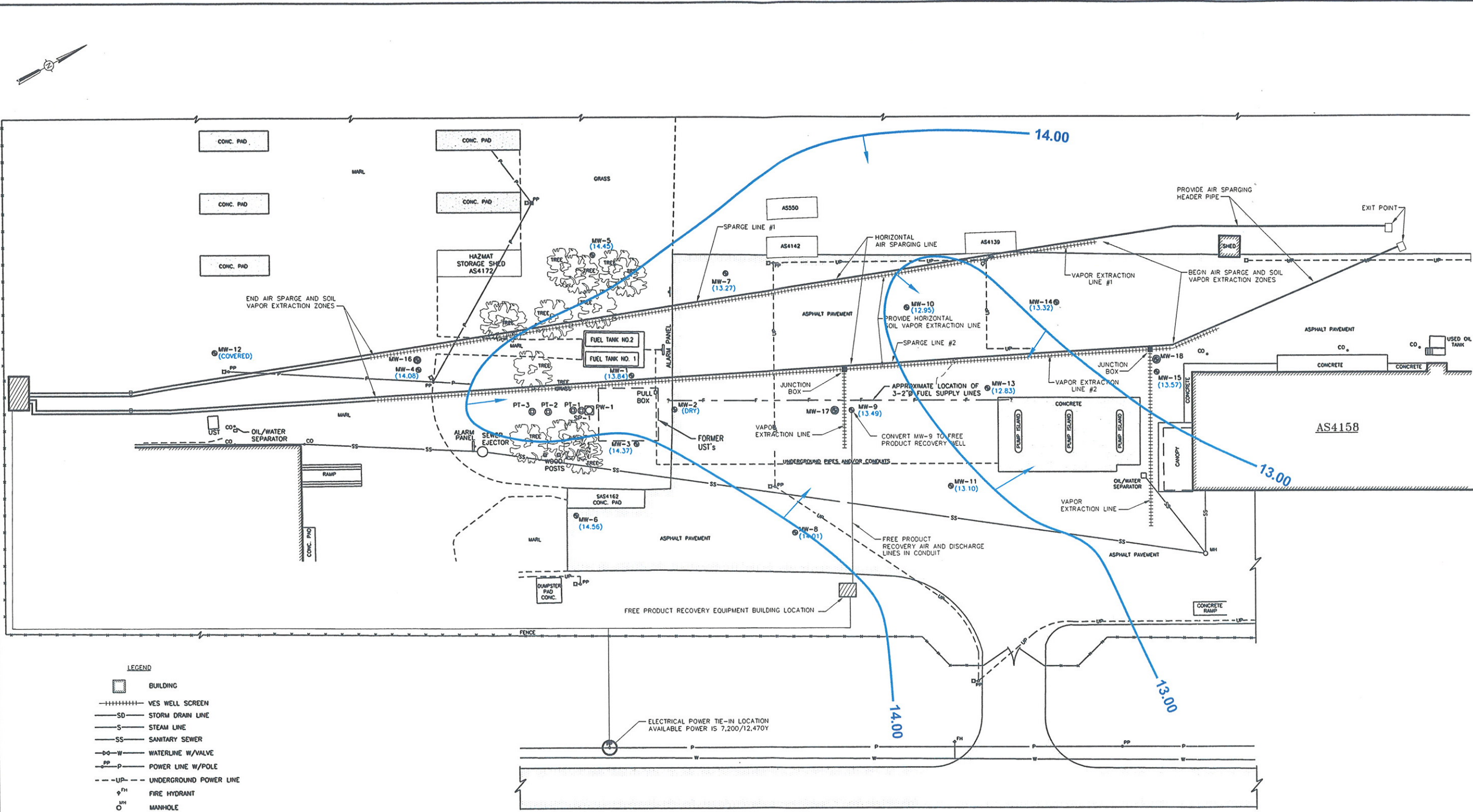
CHK'D

APPROV'D

REVISIONS

DESCRIPTION/ISSUE

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Plot Date/Time: Apr 19, 2007 - 12:53pm
Plotted By: John Lenge



GROUNDWATER ELEVATIONS

MARCH 08, 2007

SURVEY NOTES:

1. VERTICAL DATUM IS BASED ON EXISTING MILITARY CONTROL MONUMENT PW-4 WITH A LISTED ELEVATION OF 21.75 FEET (MSL); NORTH CAROLINA STATE COORDINATES FOR PW-4 ARE 352,078.63(M) NORTH AND 2,463,421.81(M) EAST. STATION PW-4 IS A 2" BRASS DISK SET IN 10" DIAMETER CONCRETE FLUSH WITH THE GROUND. THE STATION IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF PERIMETER ROAD AND THE OLD RAILROAD BED, 35.0 FEET SOUTH OF THE EDGE OF PERIMETER ROAD AND 20.0 FEET WEST OF THE EDGE OF THE OLD RAILROAD BED.

2. SURVEY CONTROL POINTS ARE BASED ON AN ASSUMED DATUM AND MAGNETIC NORTH. THE COORDINATES AND THEIR RESPECTIVE ELEVATIONS ARE AS FOLLOWS:

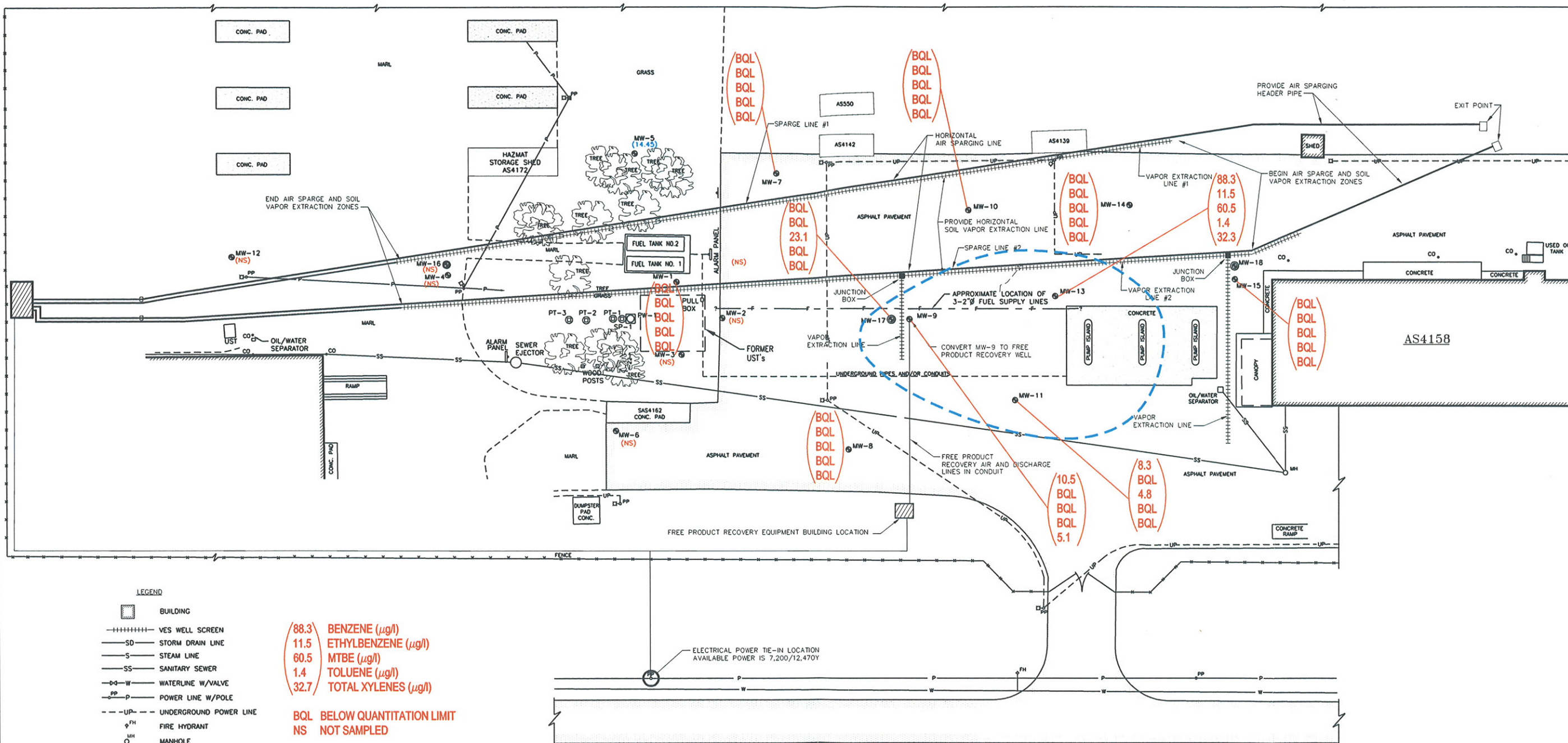
POINT	NORTH	EAST	ELEVATION (MSL)	DESCRIPTION
1.	5000.00	5000.00	23.93	PH NAIL
2.	4837.34	4906.09	23.98	PH NAIL
3.	4722.50	4839.67	23.35	PH NAIL
4.	4634.21	4788.81	22.75	#120 NAIL
5.	4504.84	4706.91	22.44	#120 NAIL



REFERENCE: J. A. JONES MONITORING REPORT.

DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND		NORFOLK, VIRGINIA	
NAVAL STATION		ATLANTIC DIVISION		ANNUAL MONITORING REPORT	
				BUILDING AS4158	
				CAMP LEJUNE, NORTH CAROLINA	
				GROUNDWATER ELEVATIONS CONTOUR MAP	
SCALE: AS SHOWN		SHEET: 2.1		PROJECT NO. 845823	
DELIVERY ORDER NO. 0061		CONSTR. CONTRACT NO. N62470-02-D-3260		MMFAC DRAWING NO.	
SHEET I.D.		DESIGNED BY RBK		CHECKED BY RBK	
		DRAWN BY JEL		APPROVED BY	
				BY CHK'D APPROV'D	
				REVISIONS	
				DATE	
				REV	
				DESCRIPTION/ISSUE	

File: Q:\LEUEUNE-6-05\RAC\IV\TO_61_BUDG_4158\MAR-07_REPORT\AS4158-07-FIG3-1.dwg
Plot Date/Time: Apr 19, 2007 - 2:18pm
Plotted By: john.lange



DISSOLVED GROUNDWATER CONTAMINANT ISOCONCENTRATION MAP MARCH 08, 2007

SURVEY NOTES:
1. VERTICAL DATUM IS BASED ON EXISTING MILITARY CONTROL MONUMENT PW-4 WITH A LISTED ELEVATION OF 21.75 FEET (MSL); NORTH CAROLINA STATE COORDINATES FOR PW-4 ARE 352,078.63(M) NORTH AND 2,463,421.81(M) EAST. STATION PW-4 IS A 2" BRASS DISK SET IN 10" DIAMETER CONCRETE FLUSH WITH THE GROUND. THE STATION IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF PERIMETER ROAD AND THE OLD RAILROAD BED, 35.0 FEET SOUTH OF THE EDGE OF PERIMETER ROAD AND 20.0 FEET WEST OF THE EDGE OF THE OLD RAILROAD BED.
2. SURVEY CONTROL POINTS ARE BASED ON AN ASSUMED DATUM AND MAGNETIC NORTH. THE COORDINATES AND THEIR RESPECTIVE ELEVATIONS ARE AS FOLLOWS:

POINT	NORTH	EAST	ELEVATION (MSL)	DESCRIPTION
1.	5000.00	5000.00	23.93	PK NAIL
2.	4837.34	4906.09	23.98	PK NAIL
3.	4722.30	4839.87	23.35	PK NAIL
4.	4634.21	4788.81	22.75	#120 NAIL
5.	4504.84	4706.91	22.44	#120 NAIL



REFERENCE: J. A. JONES MONITORING REPORT.

DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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TABLES

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	3/8/2007			1/11/2007			12/15/2006			11/15/2006		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		6.70	13.84		Not Measured			Not Measured			Not Measured	
MW-2	21.31		dry			Not Measured			Not Measured			Not Measured	
MW-3	20.87		6.50	14.37		Not Measured			Not Measured			Not Measured	
MW-4	21.55		7.47	14.08		6.85	14.70		8.27	13.28		8.70	12.85
MW-5	21.87		7.42	14.45		6.67	15.20		8.20	13.67		8.79	13.08
MW-6	22.04		7.48	14.56		6.29	15.75		8.45	13.59		8.86	13.18
MW-7	21.37		8.10	13.27		8.41	12.96		8.60	12.77		9.23	12.14
MW-8	22.18		8.17	14.01		Not Measured			Not Measured			Not Measured	
MW-9 (Prod. Recovery Well)	22.02		8.53	13.49		8.72	13.30		9.89	12.13		9.51	12.51
MW-10	22.43		9.48	12.95		8.96	13.47		9.40	13.03		10.51	11.92
MW-11	23.10		10.00	13.10		9.83	13.27		9.72	13.38		10.90	12.20
MW-12	22.03		covered			Not Measured			Not Measured			Not Measured	
MW-13	23.23		10.40	12.83		10.27	12.96		10.74	12.49		11.25	11.98
MW-14	22.53		9.21	13.32		9.38	13.15		9.56	12.97		9.74	12.79
MW-15	23.25		9.68	13.57		Not Measured			Not Measured			Not Measured	
MW-16	21.34		8.12	13.22		7.69	13.65		8.63	12.71		9.51	11.83
MW-17	22.67		9.40	13.27		Not Measured			Not Measured			Not Measured	
MW-18	23.15		10.49	12.66		Not Measured			Not Measured			Not Measured	
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured. The product-water interface probe was being repaired.

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	10/25/2006			9/27/2006			8/7/2006			7/19/2006		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			Not Measured			Not Measured			Not Measured	
MW-2	21.31		Not Measured			Not Measured			Not Measured			Not Measured	
MW-3	20.87		Not Measured			Not Measured			Not Measured			Not Measured	
MW-4	21.55		8.80	12.75		8.25	13.30		8.49	13.06		8.77	12.78
MW-5	21.87		8.36	13.51		8.42	13.45		8.65	13.22		9.04	12.83
MW-6	22.04		9.12	12.92		8.55	13.49		8.61	13.43		9.08	12.96
MW-7	21.37		8.69	12.68		8.28	13.09		8.62	12.75		9.27	12.10
MW-8	22.18		Not Measured			Not Measured			Not Measured			Not Measured	
MW-9 (Prod. Recovery Well)	22.02		9.36	12.66		9.91	12.11		10.39	11.63		9.38	12.64
MW-10	22.43		10.56	11.87		9.89	12.54		9.96	12.47		10.02	12.41
MW-11	23.10		10.87	12.23		10.37	12.73		10.72	12.38		10.83	12.27
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	23.23		11.24	11.99		10.75	12.48		11.10	12.13		11.32	11.91
MW-14	22.53		9.61	12.92		9.35	13.18		9.62	12.91		9.36	13.17
MW-15	23.25		Not Measured			Not Measured			Not Measured			Not Measured	
MW-16	21.34		9.55	11.79		9.02	12.32		9.49	11.85		9.64	11.70
MW-17	22.67		Not Measured			Not Measured			Not Measured			Not Measured	
MW-18	23.15		Not Measured			Not Measured			Not Measured			Not Measured	
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

⁴ System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	6/12/2006			5/9/2006			4/10/2006		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			Not Measured			Not Measured	
MW-2	21.31		Not Measured			Not Measured			Not Measured	
MW-3	20.87		Not Measured			Not Measured			Not Measured	
MW-4	21.55		7.06	14.49		7.94	13.61		8.25	13.30
MW-5	21.87		8.76	13.11		8.23	13.64		8.38	13.49
MW-6	22.04		7.94	14.10		7.94	14.10		8.74	13.30
MW-7	21.37		9.32	12.05		8.95	12.42		8.15	13.22
MW-8	22.18		Not Measured			Not Measured			Not Measured	
MW-9 (Prod. Recovery Well)	22.02		9.45	12.57		9.26	12.76		9.27	12.75
MW-10	22.43		10.72	11.71		10.41	12.02		10.47	11.96
MW-11	23.10		11.05	12.05		10.77	12.33		10.87	12.23
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	23.23		11.38	11.85		11.10	12.13		11.19	12.04
MW-14	22.53		9.81	12.72		9.69	12.84		9.70	12.83
MW-15	23.25		Not Measured			Not Measured			Not Measured	
MW-16	21.34		9.64	11.70		9.18	12.16		9.26	12.08
MW-17	22.67		Not Measured			Not Measured			Not Measured	
MW-18	23.15		Not Measured			Not Measured			Not Measured	
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

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toc = top of casing elevation

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* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	3/21/2006			1/13/2006			8/15/2005			7/26/2005		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			Not Measured			13.76	6.78		14.34	6.20
MW-2	21.31		Not Measured			Not Measured			Not Measured			Not Measured	
MW-3	20.87		Not Measured			Not Measured			9.81	11.06		10.77	10.10
MW-4	21.55		8.32	13.23		8.20	13.35		14.29	7.26		14.71	6.84
MW-5	21.87		8.53	13.34		8.29	13.58		13.49	8.38		13.93	7.94
MW-6	22.04		8.77	13.27		8.35	13.69		6.62	15.42		8.10	13.94
MW-7	21.37		8.75	12.62		8.92	12.45		14.29	7.08		13.63	7.74
MW-8	22.18		Not Measured			Not Measured			7.13	15.05		7.27	14.91
MW-9 (Prod. Recovery Well)	22.02		8.94	13.08		9.08	12.94		13.54	8.48		14.07	7.95
MW-10	22.43		9.63	12.80		11.19	11.24		5.87	16.56		5.19	17.24
MW-11	23.10		10.40	12.70		10.74	12.36		12.91	10.19		13.13	9.97
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	23.23		10.67	12.56		11.51	11.72		12.94	10.29		12.72	10.51
MW-14	22.53		9.46	13.07		9.94	12.59		6.59	15.94		6.00	16.53
MW-15	23.25		Not Measured			Not Measured			14.40	8.85		13.89	9.36
MW-16	21.34		8.77	12.57		8.87	12.47		12.67	8.67		13.23	8.11
MW-17	22.67		Not Measured			Not Measured			12.43	10.24		12.74	9.93
MW-18	23.15		Not Measured			Not Measured			12.28	10.87		12.92	10.23
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	6/8/2005			5/3/2005			4/4/2005			3/1/2005		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		13.86	6.68		13.44	7.10		Not Measured			Not Measured	
MW-2	21.31		Not Measured			Not Measured			Not Measured			Not Measured	
MW-3	20.87		10.05	10.82		9.63	11.24		Not Measured			Not Measured	
MW-4	21.55		13.96	7.59		13.57	7.98		16.47	5.08		15.37	6.18
MW-5	21.87		13.52	8.35		13.28	8.59		15.24	6.63		13.50	8.37
MW-6	22.04		6.96	15.08		Not Measured			9.06	12.98		7.28	14.76
MW-7	21.37		13.13	8.24		13.06	8.31		17.17	4.20		12.87	8.50
MW-8	22.18		6.83	15.35		6.55	15.63		7.82	14.36		7.01	15.17
MW-9 (Prod. Recovery Well)	22.02		13.91	8.11		13.92	8.10		15.70	6.32		14.17	7.85
MW-10	22.43		4.39	18.04		7.03	15.40		Not Measured			7.21	15.22
MW-11	23.10		12.72	10.38		12.72	10.38		14.94	8.16		12.52	10.58
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	23.23		12.28	10.95		12.69	10.54		15.67	7.56		12.64	10.59
MW-14	22.53		6.01	16.52		6.11	16.42		Not Measured			6.60	15.93
MW-15	23.25		13.97	9.28		13.74	9.51		14.40	8.85		11.17	12.08
MW-16	21.34		12.93	8.41		12.60	8.74		13.41	7.93		12.26	9.08
MW-17	22.67		12.57	10.10		12.32	10.35		13.64	9.03		12.10	10.57
MW-18	23.15		12.43	10.72		12.25	10.90		13.35	9.80		12.06	11.09
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	2/4/2005			1/4/2005			12/9/2004			11/4/2004		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		13.02	7.52		12.94	7.60		13.06	7.48		13.62	6.92
MW-2	21.31		Not Measured			Not Measured			Not Measured			Not Measured	
MW-3	20.87		Not Measured			Not Measured			Not Measured			Not Measured	
MW-4	21.55		13.47	8.08		13.29	8.26		13.61	7.94		13.94	7.61
MW-5	21.87		13.00	8.87		12.90	8.97		13.15	8.72		13.70	8.17
MW-6	22.04		6.08	15.96		6.03	16.01		6.17	15.87		6.67	15.37
MW-7	21.37		12.10	9.27		12.71	8.66		13.16	8.21		13.52	7.85
MW-8	22.18		6.87	15.31		6.06	16.12		6.37	15.81		7.11	15.07
MW-9 (Prod. Recovery Well)	22.02		12.43	9.59	13.81	13.83	8.19		13.84	8.18		14.58	7.44
MW-10	22.43		4.71	17.72		4.80	17.63		5.03	17.40		5.64	16.79
MW-11	23.10		12.59	10.51		12.56	10.54		12.83	10.27		13.46	9.64
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	23.23		13.43	9.80		12.56	10.67		12.84	10.39		13.43	9.80
MW-14	22.53		6.19	16.34		5.85	16.68		6.24	16.29		6.46	16.07
MW-15	23.25		13.27	9.98		13.16	10.09		13.43	9.82		14.11	9.14
MW-16	21.34		13.72	7.62		12.34	9.00		Not Measured			13.29	8.05
MW-17	22.67		12.53	10.14		12.07	10.60		12.40	10.27		12.85	9.82
MW-18	23.15		13.43	9.72		12.05	11.10		2.18	20.97		12.67	10.48
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

^{*} System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	10/1/2004			9/12/2004			8/12/2004			7/12/2004		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		17.39	3.15		15.81	4.73		13.79	6.75		Not Measured	
MW-2	21.31		10.53	10.78		9.91	11.40		Not Measured			Not Measured	
MW-3	20.87		Not Measured			Not Measured			10.08	10.79		Not Measured	
MW-4	21.55		14.85	6.70		15.99	5.56		13.96	7.59		13.87	7.68
MW-5	21.87		14.69	7.18		15.28	6.59		13.58	8.29		13.25	8.62
MW-6	22.04		8.16	13.88		Not Measured			7.34	14.70		7.32	14.72
MW-7	21.37		14.67	6.70		14.79	6.58		13.21	8.16		12.89	8.48
MW-8	22.18		8.46	13.72		9.08	13.10		7.19	14.99		6.42	15.76
MW-9 (Prod. Recovery Well)	22.02		14.77	7.25		13.32	8.70		13.97	8.05	13.94	14.04	7.98
MW-10	22.43		6.78	15.65		7.75	14.68		6.28	16.15		5.65	16.78
MW-11	23.10		19.01	4.09		15.54	7.56		14.22	8.88		13.03	10.07
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	23.23		13.90	9.33		14.25	8.98		13.17	10.06		13.01	10.22
MW-14	22.53		6.72	15.81		7.00	15.53		6.13	16.40		6.14	16.39
MW-15	23.25		14.50	8.75		14.49	8.76		13.74	9.51		13.70	9.55
MW-16	21.34		13.81	7.53		14.76	6.58		13.04	8.30		12.81	8.53
MW-17	22.67		13.92	8.75		14.31	8.36		12.73	9.94		12.62	10.05
MW-18	23.15		13.52	9.63		14.05	9.10		12.68	10.47		13.38	9.77
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	6/9/2004			5/6/2004			4/13/2004			1/14/2003		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			Not Measured			Not Measured			Not Measured	
MW-2	21.31		Not Measured			8.69	12.62		Not Measured			Not Measured	
MW-3	20.87		Not Measured			Not Measured			Not Measured			9.69	11.18
MW-4	21.55		14.14	7.41		Not Measured			15.24	6.31		9.96	11.59
MW-5	21.87		13.67	8.20		Not Measured			14.50	7.37		10.00	11.87
MW-6	22.04		6.83	15.21		9.58	12.46		8.92	13.12		10.10	11.94
MW-7	21.37		13.31	8.06		14.34	7.03		13.89	7.48		10.49	10.88
MW-8	22.18		7.14	15.04		8.07	14.11		7.40	14.78		10.97	11.21
MW-9 (Prod. Recovery Well)	22.02		14.44	7.58	14.65	14.66	7.36		14.52	7.50	10.46	12.83	9.19
MW-10	22.43		6.17	16.26		6.60	15.83		6.18	16.25		11.63	10.80
MW-11	23.10		13.41	9.69		14.03	9.07		13.03	10.07		11.92	11.18
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	23.23		13.34	9.89		13.95	9.28		13.63	9.60		12.38	10.85
MW-14	22.53		6.55	15.98		6.52	16.01		6.43	16.10		10.65	11.88
MW-15	23.25		13.29	9.96		14.81	8.44		15.56	7.69		11.94	11.31
MW-16	21.34		13.27	8.07		14.51	6.83		13.84	7.50		10.73	10.61
MW-17	22.67		12.84	9.83		14.07	8.60		13.36	9.31		11.60	11.07
MW-18	23.15		12.60	10.55		13.85	9.30		13.24	9.91		12.41	10.74
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	11/20/2002			10/22/2002			9/11/2002			8/20/2002		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			5.55			Not Measured			Not Measured	
MW-2	21.31		Not Measured			6.18	15.13		Dry			Dry	
MW-3	20.87		7.24	13.63		9.90	10.97		8.57	12.30		9.70	11.17
MW-4	21.55		10.50	11.05		10.29	11.26		9.63	11.92		10.35	11.20
MW-5	21.87		10.72	11.15		10.39	11.48		9.20	12.67		10.28	11.59
MW-6	22.04		9.66	12.38		10.59	11.45		9.65	12.39		10.80	11.24
MW-7	21.37		11.77	9.60		10.65	10.72		9.28	12.09		10.41	10.96
MW-8	22.18		11.31	10.87		11.09	11.09		10.38	11.80		11.20	10.98
MW-9 (Prod. Recovery Well)	22.02	11.36	12.57	9.45	11.67	12.70	9.32	9.77	9.92	12.10	11.77	12.85	9.17
MW-10	22.43		14.14	8.29		12.00	10.43		9.99	12.44		10.90	11.53
MW-11	23.10		12.75	10.35		12.20	10.90		11.06	12.04		11.96	11.14
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	23.23		14.35	8.88		12.59	10.64		10.99	12.24		10.85	12.38
MW-14	22.53		10.80	11.73		10.68	11.85		10.44	12.09		10.12	12.41
MW-15	23.25		11.74	11.51		11.76	11.49		11.14	12.11		10.61	12.64
MW-16	21.34		11.87	9.47		10.99	10.35		9.95	11.39		11.20	10.14
MW-17	22.67		12.38	10.29		11.80	10.87		10.88	11.79		1.65	21.02
MW-18	23.15		13.32	9.83		12.61	10.54		11.75	11.40		12.70	10.45
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	7/15/2002			5/13/2002			4/15/2002		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			9.46			Not Measured	
MW-2	21.31		Dry			Dry			Dry	
MW-3	20.87		7.70	13.17		9.90	10.97		9.86	11.01
MW-4	21.55		11.03	10.52		10.54	11.01		10.37	11.18
MW-5	21.87		10.28	11.59		10.40	11.47		10.23	11.64
MW-6	22.04		11.16	10.88		10.68	11.36		10.57	11.47
MW-7	21.37		11.01	10.36		10.60	10.77		10.60	10.77
MW-8	22.18		11.60	10.58		11.22	10.96		11.11	11.07
MW-9 (Prod. Recovery Well)	22.02	11.77	12.46		*	12.20		10.88	11.68	10.34
MW-10	22.43		12.25			11.74			11.83	10.60
MW-11	23.10		12.80	10.30		12.15	10.95		12.12	10.98
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	23.23		13.01			12.41			12.45	10.78
MW-14	22.53		10.97	11.56		10.75	11.78		10.70	11.83
MW-15	23.25		12.60	10.65		12.01	11.24		11.86	11.39
MW-16	21.34		11.83	9.51		10.92	10.42		10.81	10.53
MW-17	22.67		12.23	10.44		11.81	10.86		11.72	10.95
MW-18	23.15		12.96	10.19		12.60	10.55		12.50	10.65
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	3/19/2002			2/12/2002			1/15/2002		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			Not Measured			Not Measured	
MW-2	21.31		Dry			Dry			Dry	
MW-3	20.87		6.92	13.95		9.30	11.57		7.95	12.92
MW-4	21.55		10.21	11.34		9.82	11.73		10.96	10.59
MW-5	21.87		9.83	12.04		10.84	11.03		10.88	10.99
MW-6	22.04		10.01	12.03		9.82	12.22		11.16	10.88
MW-7	21.37		10.43	10.94		10.93	10.44		11.80	9.57
MW-8	22.18		11.05	11.13		11.60	10.58		12.40	9.78
MW-9 (Prod. Recovery Well)	22.02	11.59	13.12	8.90	11.49	13.99	8.03	12.28	15.18	6.84
MW-10	22.43		11.69			11.40	11.03		Not Measured	
MW-11	23.10		12.12	10.98		13.44	9.66		13.69	9.41
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	23.23		12.45	10.78		Dry			15.45	7.78
MW-14	22.53		10.71	11.82		11.01	11.52		10.70	11.83
MW-15	23.25		11.78	11.47		13.49	9.76		14.20	9.05
MW-16	21.34		10.76	10.58		12.10	9.24		11.63	9.71
MW-17	22.67		11.58	11.09		12.67	10.00		12.50	10.17
MW-18	23.15		12.34	10.81		13.15	10.00		13.64	9.51
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	12/17/2001			11/5/2001			10/15/2001		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		8.53			9.38			9.17	
MW-2	21.31		Dry			Dry			Dry	
MW-3	20.87		9.50	11.37		9.78	11.09		9.48	11.39
MW-4	21.55		9.58	11.97		10.11	11.44		9.79	11.76
MW-5	21.87		9.90	11.97		10.29	11.58		9.98	11.89
MW-6	22.04		9.95	12.09		10.32	11.72		10.07	11.97
MW-7	21.37		9.48	11.89		10.88	10.49		Not Measured	
MW-8	22.18		11.03	11.15		10.85	11.33		10.28	11.90
MW-9 (Prod. Recovery Well)	22.02		10.10	11.92		10.20	11.82		10.35	11.67
MW-10	22.43		9.90	12.53		Not Measured			11.45	10.98
MW-11	23.10		11.83	11.27		11.83	11.27		11.81	11.29
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	23.23		13.35	9.88		11.88	11.35		12.17	11.06
MW-14	22.53		9.95	12.58		9.48	13.05		10.01	12.52
MW-15	23.25		10.55	12.70		10.15	13.10		10.63	12.62
MW-16	21.34		10.89	10.45		10.89	10.45		10.65	10.69
MW-17	22.67		11.57	11.10		11.78	10.89		11.61	11.06
MW-18	23.15		12.50	10.65		12.69	10.46		12.33	10.82
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	9/24/2001			7/16/2001			5/14/2001		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		9.20			8.50			6.30	
MW-2	21.31		Not Measured			Not Measured			8.30	13.01
MW-3	20.87		9.25	11.62		8.68	12.19		7.80	13.07
MW-4	21.55		9.48	12.07		8.98	12.57		8.90	12.65
MW-5	21.87		9.99	11.88		9.50	12.37		9.10	12.77
MW-6	22.04		9.65	12.39		9.22	12.82		8.98	13.06
MW-7	21.37		Not Measured			10.94	10.43		9.59	11.78
MW-8	22.18		10.82	11.36		10.20	11.98		10.27	11.91
MW-9 (Prod. Recovery Well)	22.02		12.16	9.86		10.63	11.39		10.23	11.79
MW-10	22.43		13.85	8.58		13.18	9.25		12.91	9.52
MW-11	23.10		13.40	9.70		12.76	10.34		12.70	10.40
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	23.23		16.17	7.06		16.33	6.90		15.83	7.40
MW-14	22.53		10.28	12.25		9.87	12.66		9.90	12.63
MW-15	23.25		11.29	11.96		10.35	12.90		10.55	12.70
MW-16	21.34		10.78	10.56		10.46	10.88		10.17	11.17
MW-17	22.67		11.45	11.22		11.57	11.10		11.36	11.31
MW-18	23.15		12.71	10.44		12.41	10.74		12.30	10.85
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	4/17/2001			3/16/2001			2/15/2001		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		7.83			Not Measured			Not Measured	
MW-2	21.31		8.43	12.88		7.06	14.25		7.10	14.21
MW-3	20.87		7.85	13.02		6.54	14.33		6.80	14.07
MW-4	21.55		8.40	13.15		8.18	13.37		8.16	13.39
MW-5	21.87		8.60	13.27		6.75	15.12		7.82	14.05
MW-6	22.04		8.70	13.34		7.80	14.24		8.06	13.98
MW-7	21.37		9.00	12.37		8.82	12.55		7.31	14.06
MW-8	22.18		9.23	12.95		9.31	12.87		9.00	13.18
MW-9 (Prod. Recovery Well)	22.02		9.28	12.74		9.45	12.57		8.74	13.28
MW-10	22.43		9.80	12.63		10.26	12.17		6.31	16.12
MW-11	23.10		10.70	12.40		10.75	12.35		8.80	14.30
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	23.23		11.14	12.09		11.22	12.01		7.86	15.37
MW-14	22.53		9.50	13.03		9.68	12.85		8.77	13.76
MW-15	23.25		10.14	13.11		10.30	12.95		9.65	13.60
MW-16	21.34		9.12	12.22		9.13	12.21		8.91	12.43
MW-17	22.67		10.33	12.34		10.20	12.47		9.77	12.90
MW-18	23.15		11.31	11.84		11.19	11.96		10.62	12.53
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	2/14/2001			2/13/2001			1/4/2001		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			Not Measured			Not Measured	
MW-2	21.31		5.59	15.72		5.72	15.59		Not Measured	
MW-3	20.87		5.46	15.41		6.05	14.82		8.04	12.83
MW-4	21.55		7.79	13.76		7.84	13.71		8.70	12.85
MW-5	21.87		6.86	15.01		6.30	15.57		8.71	13.16
MW-6	22.04		7.81	14.23		8.50	13.54		8.98	13.06
MW-7	21.37		6.65	14.72		4.85	16.52		9.20	12.17
MW-8	22.18		8.54	13.64		8.81	13.37		9.30	12.88
MW-9 (Prod. Recovery Well)	22.02		8.35	13.67		7.68	14.34		9.48	12.54
MW-10	22.43		5.45	16.98		3.50	18.93		10.45	11.98
MW-11	23.10		8.10	15.00		9.95	13.15		10.71	12.39
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	23.23		7.65	15.58		7.53	15.70		11.13	12.10
MW-14	22.53		8.79	13.74		8.94	13.59		9.60	12.93
MW-15	23.25		9.65	13.60		9.70	13.55		10.39	12.86
MW-16	21.34		7.78	13.56		4.04	17.30		9.35	11.99
MW-17	22.67		8.79	13.88		5.68	16.99		10.56	12.11
MW-18	23.15		9.62	13.53		7.86	15.29		11.45	11.70
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	12/14/00 ³		Depth to Hydrocarbon Product (ft. below toc)	12/14/00 ²		Depth to Hydrocarbon Product (ft. below toc)	10/18/00 ¹	
			Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)		Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)		Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			Not Measured			7.56	
MW-2	21.31		7.35	13.96		5.73	15.58		7.99	13.32
MW-3	20.87		7.10	13.77		6.07	14.80		7.51	13.36
MW-4	21.55		8.27	13.28		8.38	13.17		8.10	13.45
MW-5	21.87		8.04	13.83		8.02	13.85		8.25	13.62
MW-6	22.04		8.27	13.77		8.28	13.76		8.72	13.32
MW-7	21.37		8.81	12.56		9.87	11.50		8.68	12.69
MW-8	22.18		9.05	13.13		9.12	13.06		8.34	13.84
MW-9 (Prod. Recovery Well)	22.02		14.18	7.84		9.36	12.66		8.97	13.05
MW-10	22.43		9.82	12.61		9.74	12.69		9.23	13.20
MW-11	23.10		10.72	12.38		10.56	12.54		10.18	12.92
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	23.23		Dry			10.95	12.28		10.62	12.61
MW-14	22.53		9.72	12.81		9.60	12.93		9.02	13.51
MW-15	23.25		10.23	13.02		10.26	12.99		9.41	13.84
MW-16	21.34		9.47	11.87		8.54	12.80		8.87	12.47
MW-17	22.67		10.14	12.53		10.22	12.45		10.08	12.59
MW-18	23.15		11.04	12.11		11.08	12.07		10.96	12.19
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	7/26/00 ¹			4/25/00 ¹			1/12/00 ¹		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			Not Measured			7.46	
MW-2	21.31		5.70	15.61		6.97	14.34		Not Measured	
MW-3	20.87		5.12	15.75		7.56	13.31		8.31	12.56
MW-4	21.55		5.75	15.80		8.10	13.45		8.36	13.19
MW-5	21.87		6.75	15.12		8.25	13.62		Not Measured	
MW-6	22.04		7.06	14.98		8.17	13.87		9.29	12.75
MW-7	21.37		8.56	12.81		8.14	13.23		9.28	12.09
MW-8	22.18		9.83	12.35		8.93	13.25		9.63	12.55
MW-9 (Prod. Recovery Well)	22.02		9.55	12.47		9.28	12.74		11.01	11.01
MW-10	22.43		10.27	12.16		9.75	12.68		10.51	11.92
MW-11	23.10		10.89	12.21		10.08	13.02		10.83	12.27
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	23.23		11.42	11.81		10.47	12.76		11.38	11.85
MW-14	22.53		9.50	13.03		9.16	13.37		9.20	13.33
MW-15	23.25		10.10	13.15		9.70	13.55		9.66	13.59
MW-16	21.34		8.93	12.41		8.80	12.54		9.38	11.96
MW-17	22.67		10.23	12.44		9.94	12.73		10.51	12.16
MW-18	23.15		11.10	12.05		10.72	12.43		11.45	11.70
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	12/20/1999			11/22/1999			10/20/99 ¹		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			Not Measured			Not Measured	
MW-2	21.31		Not Measured			5.92	15.39		Not Measured	
MW-3	20.87		8.13	12.74		6.50	14.37		5.29	15.58
MW-4	21.55		7.53	14.02		6.84	14.71		5.53	16.02
MW-5	21.87		Not Measured			7.37	14.50		6.34	15.53
MW-6	22.04		8.50	13.54		7.56	14.48		5.50	16.54
MW-7	21.37		Not Measured			4.76	16.61		7.04	14.33
MW-8	22.18		8.82	13.36		7.45	14.73		7.23	14.95
MW-9 (Prod. Recovery Well)	22.02		Not Measured			9.91	12.11		10.66	11.36
MW-10	22.43		Not Measured			4.82	17.61		8.61	13.82
MW-11	23.10		10.41	12.69		9.23	13.87		9.07	14.03
MW-12	22.03		6.43	15.60		7.19	14.84		9.21	12.82
MW-13	23.23		11.12	12.11		9.35	13.88		9.72	13.51
MW-14	22.53		8.93	13.60		7.64	14.89		8.98	13.55
MW-15	23.25		9.51	13.74		8.30	14.95		9.35	13.90
MW-16	21.34		10.16	11.18		8.30	13.04		10.63	10.71
MW-17	22.67		10.61	12.06		9.62	13.05		7.99	14.68
MW-18	23.15		10.44	12.71		10.68	12.47		8.67	14.48
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

^{*} System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	9/23/1999			8/19/1999			7/14/99 ¹		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			Not Measured			Not Measured	
MW-2	21.31		5.56	15.75		5.66	15.65		Not Measured	
MW-3	20.87		Not Measured			6.14	14.73		9.54	11.33
MW-4	21.55		4.46	17.09		6.40	15.15		9.22	12.33
MW-5	21.87		5.96	15.91		7.91	13.96		10.63	11.24
MW-6	22.04		4.43	17.61		9.63	12.41		9.39	12.65
MW-7	21.37		6.26	15.11		6.00	15.37		11.91	9.46
MW-8	22.18		6.65	15.53		8.64	13.54		11.12	11.06
MW-9 (Prod. Recovery Well)	22.02		6.54	15.48		8.56	13.46		12.63	9.39
MW-10	22.43		10.75	11.68		3.65	18.78		15.36	7.07
MW-11	23.10		8.29	14.81		7.91	15.19		14.18	8.92
MW-12	22.03		7.15	14.88		8.22	13.81		10.38	11.65
MW-13	23.23		7.69	15.54		5.30	17.93		16.40	6.83
MW-14	22.53		7.82	14.71		9.40	13.13		9.60	12.93
MW-15	23.25		9.32	13.93		9.58	13.67		9.80	13.45
MW-16	21.34		6.57	14.77		7.00	14.34		Not Measured	
MW-17	22.67		7.63	15.04		7.90	14.77		12.94	9.73
MW-18	23.15		8.64	14.51		9.24	13.91		13.61	9.54
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	5/24/99 ³			5/24/99 ²			5/10/99 ³		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		6.65			9.03			5.49	
MW-2	21.31		Not Measured			Not Measured			7.52	13.79
MW-3	20.87		7.82	13.05		9.34	11.53		6.94	13.93
MW-4	21.55		8.82	12.73		8.85	12.70		7.96	13.59
MW-5	21.87		8.06	13.81		9.89	11.98		7.09	14.78
MW-6	22.04		9.27	12.77		9.29	12.75		8.90	13.14
MW-7	21.37		10.25	11.12		10.25	11.12		6.38	14.99
MW-8	22.18		10.75	11.43		10.72	11.46		10.27	11.91
MW-9 (Prod. Recovery Well)	22.02		11.85	10.17		10.72	11.30		12.62	9.40
MW-10	22.43		13.26	9.17		14.48	7.95		8.15	14.28
MW-11	23.10		14.09	9.01		14.12	8.98		11.98	11.12
MW-12	22.03		6.70	15.33		9.54	12.49		6.48	15.55
MW-13	23.23		16.22	7.01		16.18	7.05		11.45	11.78
MW-14	22.53		9.01	13.52		9.47	13.06		8.46	14.07
MW-15	23.25		9.51	13.74		9.49	13.76		9.31	13.94
MW-16	21.34		6.81	14.53		10.76	10.58		6.03	15.31
MW-17	22.67		8.46	14.21		11.94	10.73		7.62	15.05
MW-18	23.15		11.71	11.44		12.78	10.37		10.23	12.92
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	5/10/99 ²			4/22/99 ³			4/22/99 ²		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		9.47			11.97			12.03	
MW-2	21.31		Not Measured			Not Measured			Not Measured	
MW-3	20.87		9.82	11.05		11.33	9.54		11.35	9.52
MW-4	21.55		9.20	12.35		8.81	12.74		9.56	11.99
MW-5	21.87		10.52	11.35		11.32	10.55		11.49	10.38
MW-6	22.04		8.99	13.05		8.96	13.08		8.94	13.10
MW-7	21.37		12.42	8.95		13.66	7.71		13.67	7.70
MW-8	22.18		10.62	11.56		12.74	9.44		10.74	11.44
MW-9 (Prod. Recovery Well)	22.02		10.94	11.08		14.24	7.78		11.26	10.76
MW-10	22.43		15.13	7.30		14.83	7.60		14.84	7.59
MW-11	23.10		13.81	9.29		12.06	11.04		12.96	10.14
MW-12	22.03		9.72	12.31		11.46	10.57		11.62	10.41
MW-13	23.23		15.64	7.59		13.26	9.97		13.00	10.23
MW-14	22.53		9.42	13.11		9.32	13.21		9.33	13.20
MW-15	23.25		9.49	13.76		9.46	13.79		9.43	13.82
MW-16	21.34		10.72	10.62		13.58	7.76		13.71	7.63
MW-17	22.67		10.81	11.86		14.21	8.46		14.33	8.34
MW-18	23.15		12.94	10.21		14.24	8.91		14.31	8.84
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	4/8/99 ³			4/8/99 ²			3/8/99 ¹		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		4.92			4.19			Not Measured	
MW-2	21.31		6.99	14.32		7.08	14.23		Well Dry	
MW-3	20.87		6.84	14.03		6.82	14.05		8.82	12.05
MW-4	21.55		6.59	14.96	Trace	6.60	14.95		8.68	12.87
MW-5	21.87		6.19	15.68		6.10	15.77		9.45	12.42
MW-6	22.04		7.81	14.23		7.89	14.15		8.61	13.43
MW-7	21.37		5.32	16.05		5.00	16.37		9.83	11.54
MW-8	22.18		8.36	13.82		8.32	13.86		9.18	13.00
MW-9 (Prod. Recovery Well)	22.02		10.29	11.73		7.95	14.07		9.81	12.21
MW-10	22.43		4.51	17.92		4.33	18.10		11.04	11.39
MW-11	23.10		7.62	15.48		7.58	15.52		11.60	11.50
MW-12	22.03		7.17	14.86		7.00	15.03		8.79	13.24
MW-13	23.23		6.29	16.94		6.19	17.04		12.27	10.96
MW-14	22.53		8.44	14.09		8.39	14.14		9.44	13.09
MW-15	23.25		9.21	14.04		9.16	14.09		9.86	13.39
MW-16	21.34		5.99	15.35		5.70	15.64		10.00	11.34
MW-17	22.67		6.94	15.73		6.64	16.03		9.65	13.02
MW-18	23.15		8.28	14.87		8.06	15.09		12.41	10.74
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	2/5/99 ¹			1/25/99 ¹			12/10/1998		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			Not Measured			Not Measured	
MW-2	21.31		8.52	12.79		7.95	13.36		8.20	13.11
MW-3	20.87		9.12	11.75		4.96	15.91		7.12	13.75
MW-4	21.55		8.40	13.15		6.30	15.25		7.69	13.86
MW-5	21.87		9.55	12.32		9.14	12.73		7.25	14.62
MW-6	22.04		8.70	13.34		7.60	14.44		9.21	12.83
MW-7	21.37		11.62	9.75		4.52	16.85		6.17	15.20
MW-8	22.18		10.65	11.53		10.20	11.98		9.81	12.37
MW-9 (Prod. Recovery Well)	22.02		11.35	10.67		10.16	11.86	8.78	8.80	13.22
MW-10	22.43		15.20	7.23		11.76	10.67		6.35	16.08
MW-11	23.10		15.98	7.12		12.65	10.45		11.12	11.98
MW-12	22.03		9.50	12.53		9.33	12.70		Not Measured	
MW-13	23.23		16.20	7.03		16.12	7.11		6.44	16.79
MW-14	22.53		9.58	12.95		9.52	13.01		8.51	14.02
MW-15	23.25		9.78	13.47		10.00	13.25		9.19	14.06
MW-16	21.34		10.92	10.42		9.90	11.44		7.33	14.01
MW-17	22.67		12.20	10.47		10.84	11.83		8.27	14.40
MW-18	23.15		12.92	10.23		11.95	11.20		10.75	12.40
PW-1	22.80		Not Measured			9.05	13.75		Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	11/16/1998			10/20/1998			9/3/1998		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		6.91			8.20			Not Measured	
MW-2	21.31		7.87	13.44		8.51	12.80		7.43	13.88
MW-3	20.87		7.41	13.46		8.09	12.78		7.00	13.87
MW-4	21.55		7.58	13.97		7.89	13.66		7.79	13.76
MW-5	21.87		8.61	13.26		8.76	13.11		6.89	14.98
MW-6	22.04		8.55	13.49		8.89	13.15		8.29	13.75
MW-7	21.37		7.73	13.64		9.38	11.99		6.98	14.39
MW-8	22.18		8.57	13.61		9.30	12.88		9.29	12.89
MW-9 (Prod. Recovery Well)	22.02		8.78	13.24	9.23	9.32	12.79	9.13	9.15	12.89
MW-10	22.43		4.55	17.88		10.86	11.57		9.99	12.44
MW-11	23.10		8.39	14.71		12.42	10.68		13.09	10.01
MW-12	22.03		8.91	13.12		8.31	13.72		5.39	16.64
MW-13	23.23		7.50	15.73		16.21	7.02		15.39	7.84
MW-14	22.53		8.41	14.12		8.74	13.79		7.69	14.84
MW-15	23.25		9.09	14.16		9.31	13.94		8.71	14.54
MW-16	21.34		8.48	12.86		9.42	11.92		6.91	14.43
MW-17	22.67		9.41	13.26		10.68	11.99		9.61	13.06
MW-18	23.15		10.59	12.56		11.58	11.57		11.43	11.72
PW-1	22.80		7.59	15.21		9.06	13.74		Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	8/13/1998			7/31/1998			7/23/1998			7/7/1998		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			4.30			8.63			3.94	
MW-2	21.31		7.70	13.61		5.95	15.36		7.91	13.40		6.30	15.01
MW-3	20.87		7.45	13.42		5.29	15.58		7.97	12.90		5.82	15.05
MW-4	21.55		8.17	13.38		5.99	15.56		7.84	13.71		5.99	15.56
MW-5	21.87		7.25	14.62		10.55	11.32		9.45	12.42		Not Measured	
MW-6	22.04		8.69	13.35		6.39	15.65		7.91	14.13		6.68	15.36
MW-7	21.37		7.35	14.02		7.30	14.07		10.75	10.62		7.05	14.32
MW-8	22.18		9.65	12.53		7.15	15.03		8.77	13.41		7.82	14.36
MW-9 (Prod. Recovery Well)	22.02	9.55	9.59	12.47	7.03	7.12	14.99		9.01	13.01	7.44	7.78	14.58
MW-10	22.43		10.31	12.12		Not Measured			12.06	10.37		Not Measured	
MW-11	23.10		13.54	9.56		7.75	15.35		10.82	12.28		9.34	13.76
MW-12	22.03		5.75	16.28		6.22	15.81		9.56	12.47		7.59	14.44
MW-13	23.23		15.53	7.70		6.84	16.39		10.74	12.49		8.93	14.30
MW-14	22.53		8.04	14.49		7.25	15.28		8.49	14.04		Not Measured	
MW-15	23.25		9.03	14.22		8.01	15.24		8.92	14.33		8.63	14.62
MW-16	21.34		7.30	14.04		6.35	14.99		10.63	10.71		8.72	12.62
MW-17	22.67		9.90	12.77		8.73	13.94		11.69	10.98		9.82	12.85
MW-18	23.15		11.83	11.32		10.01	13.14		12.63	10.52		10.92	12.23
PW-1	22.80		Not Measured			Not Measured			Not Measured			7.73	15.07

Notes:

¹ wells (TOC) resurveyed in August 2006

²System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 1.1
Building AS 4158
Camp Lejeune, North Carolina
Water Level Measurement Summary

Sample Point	Top of Casing Elevation (ft., msl)	6/24/1998			5/15/1998			4/24/1998		
		Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)	Depth to Hydrocarbon Product (ft. below toc)	Depth to Groundwater (ft. below toc)	Groundwater Elevation (ft., msl)
MW-1	20.54		Not Measured			6.14			4.18	
MW-2	21.31		7.38	13.93		7.84	13.47		7.55	13.76
MW-3	20.87		7.13	13.74		6.84	14.03		6.31	14.56
MW-4	21.55		7.57	13.98		7.07	14.48		7.85	13.70
MW-5	21.87		8.43	13.44		7.64	14.23		7.14	14.73
MW-6	22.04		8.11	13.93		7.44	14.60		7.06	14.98
MW-7	21.37		8.74	12.63		8.17	13.20		7.69	13.68
MW-8	22.18		8.56	13.62		7.89	14.29		7.78	14.40
MW-9 (Prod. Recovery Well)	22.02	8.90	9.28	13.12		Not Measured			Not Measured	
MW-10	22.43		9.54	12.89		9.35	13.08		9.48	12.95
MW-11	23.10		10.30	12.80		11.21	11.89		9.58	13.52
MW-12	22.03		8.01	14.02		7.41	14.62		7.06	14.97
MW-13	23.23		10.56	12.67		14.06	9.17		9.27	13.96
MW-14	22.53		Not Measured			8.37	14.16		8.14	14.39
MW-15	23.25		8.93	14.32		8.82	14.43		8.71	14.54
MW-16	21.34		9.12	12.22		8.53	12.81		6.75	14.59
MW-17	22.67		10.27	12.40		9.79	12.88		9.13	13.54
MW-18	23.15		11.35	11.80		10.91	12.24		10.46	12.69
PW-1	22.80		Not Measured			7.98	14.82		Not Measured	

Notes:

¹ wells (TOC) resurveyed in August 2006

² System not operational during water level survey

ft = feet

toc = top of casing elevation

msl = mean sea level

* Indicates that the depth to hydrocarbon product could not be measured

Table 3.1
Building AS-4158
Groundwater Analytical Results
VOC, SVOC (PAHs Only) and Lead

Date: 3/8/2007			Incident Number and Name: 119909 AS4158 Wells																		
Analytical Method:			8260B																		
Contaminant of Concern			Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	2-Chloroethyl vinyl ether	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Dibromochloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	m-Dichlorobenzene	o-Dichlorobenzene	p-Dichlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																			
USTAS4158-MW01	3/8/2007	N/A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
USTAS4158-MW07	3/8/2007	N/A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
USTAS4158-MW08	3/8/2007	N/A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
USTAS4158-MW09	3/8/2007	N/A	10.5	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
USTAS4158-MW10	3/8/2007	N/A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
USTAS4158-MW11	3/8/2007	N/A	8.3	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
USTAS4158-MW13	3/8/2007	N/A	88.3	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
USTAS4158-MW14	3/8/2007	N/A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
USTAS4158-MW15	3/8/2007	N/A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
USTAS4158-MW17	3/8/2007	N/A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
USTAS4158-DUP	3/8/2007	N/A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
USTAS4158-TB	3/8/2007	N/A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
GWQS (ug/L)			1	NS	0.19	50	NS	70	NS	NS	70	7	0.38	0.51	0.41	1400	70	0.19	NS	NS	NS
GCL (ug/L)			5000	NS	190	50000	NS	70000	NS	NS	700000	7000	380	510	410	140000	70000	190	NS	NS	NS

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)

List any contaminant detected above the method detection limit

Detected concentration exceeds GWQS

GWQS = Groundwater Quality Standard NC Administrative Code Title 15A Subchapter 2L - Groundwater Classifications and Standards 04/01/05

GCL = Gross Contamination Level

Results must be reported in ug/L

ug/L = micrograms per liter

NA = not applicable

NS = no standard

J Numerical value is an estimate between laboratory reporting limit and laboratory method detection limit

Table 3.1
Building AS-4158
Groundwater Analytical Results
VOC, SVOC (PAHs Only) and Lead

Date: 3/8/2007			Incident Number and Name: 119909 AS4158 Wells															
Analytical Method:			8260B															
Contaminant of Concern			trans-1,2-Dichloroethyle	trans-1,3-Dichloroprope	Ethylbenzene	Methyl bromide	Methyl chloride	Methylene chloride	Methyl Tert Butyl Ether	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroetha	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Trichlorofluoroethene	Vinyl chloride	Xylenes (total)
Sample ID	Date Collected	Sample Depth (ft bgs)																
USTAS4158-MW01	3/8/2007	N/A	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
USTAS4158-MW07	3/8/2007	N/A	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
USTAS4158-MW08	3/8/2007	N/A	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
USTAS4158-MW09	3/8/2007	N/A	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	5.1
USTAS4158-MW10	3/8/2007	N/A	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
USTAS4158-MW11	3/8/2007	N/A	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	4.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
USTAS4158-MW13	3/8/2007	N/A	<1.0	<1.0	11.5	<2.0	<2.0	<5.0	60.5	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<2.0	<1.0	32.3
USTAS4158-MW14	3/8/2007	N/A	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	0.62 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
USTAS4158-MW15	3/8/2007	N/A	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
USTAS4158-MW17	3/8/2007	N/A	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	23.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
USTAS4158-DUP	3/8/2007	N/A	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	23.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
USTAS4158-TB	3/8/2007	N/A	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
GWQS (ug/L)			100	0.19	550	NS	2.6	4.6	200	200	0.17	NS	0.7	1000	2.8	2100	0.015	530
GCL (ug/L)			100000	190	84500	NS	2600	4600	200000	200000	170	NS	700	257500	2800	210000	15	87500

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)

List any contaminant detected above the method detection limit

Detected concentration exceeds GWQS

GWQS = Groundwater Quality Standard NC Administrative Code Title 15A Subchapter 2L - Groundwater Classifications and Standards 04/01/05

GCL = Gross Contamination Level

Results must be reported in ug/L

ug/L = micrograms per liter

NA = not applicable

NS = no standard

J Numerical value is an estimate between laboratory reporting limit and laboratory method detection limit

Table 3.1
Building AS-4158
Groundwater Analytical Results
VOC, SVOC (PAHs Only) and Lead

Date: 3/8/2007			Incident Number and Name: 119909 AS4158 Wells																																					
Analytical Method:			6010B	8270C																																				
Contaminant of Concern			Lead	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene																			
Sample ID	Date Collected	Sample Depth (ft bgs)																																						
USTAS4158-MW01	3/8/2007	N/A																				<5.0	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	
USTAS4158-MW07	3/8/2007	N/A																				<5.0	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	
USTAS4158-MW08	3/8/2007	N/A																				<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
USTAS4158-MW09	3/8/2007	N/A																				<100	1.9 J	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	1.4 J	<4.9	2.4 J	<4.9	1.7 J	<4.9	<4.9
USTAS4158-MW10	3/8/2007	N/A																				<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
USTAS4158-MW11	3/8/2007	N/A																				<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
USTAS4158-MW13	3/8/2007	N/A																				<5.0	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	1.3 J	<4.8	<4.8
USTAS4158-MW14	3/8/2007	N/A																				<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
USTAS4158-MW15	3/8/2007	N/A																				<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
USTAS4158-MW17	3/8/2007	N/A																				<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
USTAS4158-DUP	3/8/2007	N/A	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0																				
GWQS (ug/L)			15	80	210	2100	0.0479	0.00479	0.0479	210	0.479	4.79	0.0047	280	280	0.047	NS	14	21	210	210																			
GCL (ug/L)			15000	2120	1965	2000000	22	1.5	0.6	210	0.4	0.8	0.25	280	950	31	NS	12500	15500	410	210																			

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)

List any contaminant detected above the method detection limit

Detected concentration exceeds GWQS

GWQS = Groundwater Quality Standard NC Administrative Code Title 15A Subchapter 2L - Groundwater Classifications and Standards 04/01/05

GCL = Gross Contamination Level

Results must be reported in ug/L

ug/L = micrograms per liter

NA = not applicable

NS = no standard

J Numerical value is an estimate between laboratory reporting limit and laboratory method detection limit

B Indicates a result > =Instrument detection limit but < reporting limit

APPENDIX A

GROUNDWATER SAMPLE COLLECTION FIELD LOGS

PURGING AND BAILING GROUNDWATER SAMPLING FORM

MCB Camp LeJeune and New River MCAS

Project Number:	CTO 001	Well ID:	MW01
Project Name:	AS4158	Sample ID:	USTAS4158-MW01
Date:	3/8/2007	Well Condition:	Fair
Weather:	50's/Clear		

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):	N/A	Water Column (feet):	9.55
Inner Casing Diameter (inch):	2" (0.163)	Casing Volume (gal):	1.55
		Purge/Sample Method:	Low Flow Method
Depth to Product from TOC (feet):	N/A	Start Purge Date/Time:	1516
Initial Depth to Water from TOC (feet):	6.70	Total Volume Purged (gal):	3
Product Thickness (feet):	N/A	Sample Time/Date	1555
Total Depth from TOC (feet):	16.25	Sampler Name:	TE

Time	Rate (ml/min) 200-500ml	Cumulative Gallons Purged	pH	Specific Conductivity (mS/cm ^C)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Comments
1541	200	2	6.68	0.680	16.37	0.37	23.2	-66.6	
1543			6.69	0.679	16.41	0.39	25.4	-67.5	
1546			6.69	0.678	16.44	0.41	24.9	-68.0	
1549			6.69	0.677	16.47	0.44	21.6	-67.9	
1552		3	6.70	0.676	16.5	0.47	21.3	-64.9	

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

Well needs to be raised to ground surface to prevent debris/rain water from flowing into well. Purge water cloudy.

Project Number:	CTO 001	Well ID:	MW02
Project Name:	AS4158	Sample ID:	USTAS4158-MW02
Date:	3/8/2007	Well Condition:	Poor
Weather:	50s/Clear		

Protective Casing Diameter (inch):	N/A	Water Column (feet):	
Inner Casing Diameter (inch):	2" (0.163)	Casing Volume (gal):	
		Purge/Sample Method:	Low Flow Method
Depth to Product from TOC (feet):	N/A	Start Purge Date/Time:	
Initial Depth to Water from TOC (feet):	0.00	Total Volume Purged (gal):	
Product Thickness (feet):	N/A	Sample Time/Date	
Total Depth from TOC (feet):	5.66	Sampler Name:	TE

[illegible]

Not sampled. DTB was at 5.66. No water in well. Contacted Shaw's PM and directed to sample MW01 in place of MW02.

Project Number:	CTO 001	Well ID:	MW07
Project Name:	AS4158	Sample ID:	USTAS4158-MW07
Date:	3/8/2007	Well Condition:	Good
Weather:	50's/Sunny		

Protective Casing Diameter (inch):	N/A	Water Column (feet):	6.60
Inner Casing Diameter (inch):	2" (0.163)	Casing Volume (gal):	1.07
Depth to Product from TOC (feet):	N/A	Purge/Sample Method:	Low Flow Method
Initial Depth to Water from TOC (feet):	8.10	Start Purge Date/Time:	1520
Product Thickness (feet):	N/A	Total Volume Purged (gal):	3
Total Depth from TOC (feet):	14.70	Sample Time/Date	1620
		Sampler Name:	TE

[illegible]

Heavy debris in well bottom.

PURGING AND BAILING GROUNDWATER SAMPLING FORM

MCB Camp LeJeune and New River MCAS

Project Number:	CTO 001	Well ID:	MW08
Project Name:	AS4158	Sample ID:	USTAS4158-MW08
Date:	3/8/2007	Well Condition:	Good
Weather:	50s/Sunny		

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):	N/A	Water Column (feet):	8.18
Inner Casing Diameter (inch):	2" (0.163)	Casing Volume (gal):	1.33
Depth to Product from TOC (feet):	N/A	Purge/Sample Method:	Low Flow Method
Initial Depth to Water from TOC (feet):	8.17	Start Purge Date/Time:	1436
Product Thickness (feet):	N/A	Total Volume Purged (gal):	2
Total Depth from TOC (feet):	16.35	Sample Time/Date	1507
		Sampler Name:	TE

Time	Rate (ml/min) 200-500ml	Cumulative Gallons Purged	pH	Specific Conductivity (mS/cm °C)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Comments
1455	200	1.5	4.60	0.144	18.63	3.69	106	-11.0	
1458			4.61	0.144	18.64	3.74	158	-11.2	
1501			4.62	0.144	18.67	3.71	169	-12.0	
1504		2	4.63	0.144	18.7	3.67	173	-11.1	

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

Heavy silt in well bottom; purge water extremely cloudy

PURGING AND BAILING GROUNDWATER SAMPLING FORM

MCB Camp LeJeune and New River MCAS

Project Number:	CTO 001	Well ID:	MW09
Project Name:	AS4158	Sample ID:	USTAS4158-MW09
Date:	3/8/2007	Well Condition:	Fair
Weather:	50s/Sunny		

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):	N/A	Water Column (feet):	7.29
Inner Casing Diameter (inch):	2" (0.163)	Casing Volume (gal):	1.18
		Purge/Sample Method:	Low Flow Method
Depth to Product from TOC (feet):	N/A	Start Purge Date/Time:	0816
Initial Depth to Water from TOC (feet):	8.53	Total Volume Purged (gal):	2
Product Thickness (feet):	N/A	Sample Time/Date	1240
Total Depth from TOC (feet):	15.82	Sampler Name:	TE

Time	Rate (ml/min) 200-500ml	Cumulative Gallons Purged	pH	Specific Conductivity (mS/cm °C)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Comments
0847	200	1.5	6.32	0.598	18.41	0.71	12.0	-85.6	
0850			6.32	0.603	18.53	0.59	10.2	-85.4	
0853			6.33	0.617	18.56	0.60	10.6	-87.1	
0856		2	6.33	0.622	18.54	0.58	10.1	-87.1	

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

Heavy debris in purge water; sheen in purge water w/tiny black particles/oily based. 0901-Well went dry. Took sample at 1240.

PURGING AND BAILING GROUNDWATER SAMPLING FORM

MCB Camp LeJeune and New River MCAS

Project Number:	CTO 001
Project Name:	AS4158
Date:	3/8/2007
Weather:	50s/Sunny

Well ID:	MW10
Sample ID:	USTAS4158-MW10
Well Condition:	Good

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):	<u>N/A</u>	
Inner Casing Diameter (inch):	2"	(0.163)

Water Column (feet): 6.40

Casing Volume (gal):	1.04
----------------------	------

Purge/Sample Method: Low Flow Method

Depth to Product from TOC (feet): N/A

Start Purge Date/Time: 1241

Initial Depth to Water from TOC (feet):	9.48
---	------

Total Volume Purged (gal):	2.5
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Product Thickness (feet):	N/A
---------------------------	-----

Sample Time/Date	1322
------------------	------

Total Depth from TOC (feet):	15.88
------------------------------	-------

Sampler Name: TE

[illegible]

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

PURGING AND BAILING GROUNDWATER SAMPLING FORM

MCB Camp LeJeune and New River MCAS

Project Number:	CTO 001
Project Name:	AS4158
Date:	3/8/2007
Weather:	50s/Sunny

Well ID:	MW11
Sample ID:	USTAS4158-MW11
Well Condition:	Good

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):	N/A	
Inner Casing Diameter (inch):	2"	(0.163)

Water Column (feet):	6.42
Casing Volume (gal):	1.04
Purge/Sample Method:	Low Flow Method
Start Purge Date/Time:	1255
Total Volume Purged (gal):	3.5
Sample Time/Date	1410
Sampler Name:	TE

Depth to Product from TOC (feet):	N/A
Initial Depth to Water from TOC (feet):	10.00
Product Thickness (feet):	N/A
Total Depth from TOC (feet):	16.42

[illegible]

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

PH very erratic readings (+/-); PH meter checked and recalibrated.

PURGING AND BAILING GROUNDWATER SAMPLING FORM

MCB Camp LeJeune and New River MCAS

Project Number:	CTO 001
Project Name:	AS4158
Date:	3/8/2007
Weather:	50s/PC

Well ID:	MW13
Sample ID:	USTAS4158-MW13
Well Condition:	Good

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):	<u>N/A</u>
Inner Casing Diameter (inch):	2" (0.163)

Water Column (feet):	6.33
Casing Volume (gal):	1.03
Purge/Sample Method:	Low Flow Method

Depth to Product from TOC (feet):	N/A
Initial Depth to Water from TOC (feet):	10.40
Product Thickness (feet):	N/A
Total Depth from TOC (feet):	16.73

Start Purge Date/Time:	1120
Total Volume Purged (gal):	2
Sample Time/Date	1210
Sampler Name:	TE

[illegible]

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

Project Number:	CTO 001	Well ID:	MW14
Project Name:	AS4158	Sample ID:	USTAS4158-MW14
Date:	3/8/2007	Well Condition:	Fair
Weather:	50s/PC		

Protective Casing Diameter (inch):	N/A	Water Column (feet):	6.59
Inner Casing Diameter (inch):	2" (0.163)	Casing Volume (gal):	1.07
		Purge/Sample Method:	Low Flow Method
Depth to Product from TOC (feet):	N/A	Start Purge Date/Time:	1106
Initial Depth to Water from TOC (feet):	9.21	Total Volume Purged (gal):	3
Product Thickness (feet):	N/A	Sample Time/Date	1148
Total Depth from TOC (feet):	15.80	Sampler Name:	TE

Heavy debris in well bottom; need to redevelop well; ORP erratic, readings up/down; Turbidity getting worse-sampled.

Project Number:	CTO 001	Well ID:	MW15
Project Name:	AS4158	Sample ID:	USTAS4158-MW15
Date:	3/8/2007	Well Condition:	Fair
Weather:	50s/PC		

Protective Casing Diameter (inch):	N/A	Water Column (feet):	6.77
Inner Casing Diameter (inch):	2" (0.163)	Casing Volume (gal):	1.10
Depth to Product from TOC (feet):	N/A	Purge/Sample Method:	Low Flow Method
Initial Depth to Water from TOC (feet):	9.68	Start Purge Date/Time:	1030
Product Thickness (feet):	N/A	Total Volume Purged (gal):	2
Total Depth from TOC (feet):	16.45	Sample Time/Date	1101
		Sampler Name:	TE

[illegible]

PURGING AND BAILING GROUNDWATER SAMPLING FORM

MCB Camp LeJeune and New River MCAS

Project Number:	CTO 001
Project Name:	AS4158
Date:	3/8/2007
Weather:	50s/PC

Well ID:	MW17
Sample ID:	USTAS4158-MW17
Well Condition:	Fair

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):	<u>N/A</u>
Inner Casing Diameter (inch):	2" (0.163)

Water Column (feet): 40.23

Casing Volume (gal):	6.55
----------------------	------

Purge/Sample Method:	Low Flow Method
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Depth to Product from TOC (feet): N/A

Start Purge Date/Time: 0815

Initial Depth to Water from TOC (feet):	9.40
---	------

Total Volume Purged (gal):	8
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Product Thickness (feet):	N/A
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Sample Time/Date	1000
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Total Depth from TOC (feet):	49.63
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Sampler Name: TE

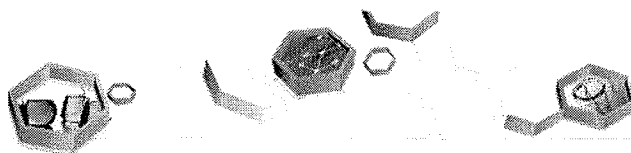
[illegible]

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

Note: Duplicate sample obtained from MW17.

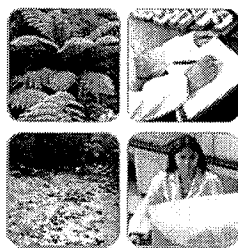
APPENDIX B

GROUNDWATER LABORATORY ANALYTICAL REPORTS



IT'S ALL IN THE CHEMISTRY

04/02/07



Technical Report for

Osage of Virginia

AS 4158, MCAS, NC

CTO 0001

Accutest Job Number: F47849

Sampling Date: 03/08/07

Report to:

Osage of Virginia

mcree@osageva.com

ATTN: Mike Cree

Total number of pages in report: 74



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi
Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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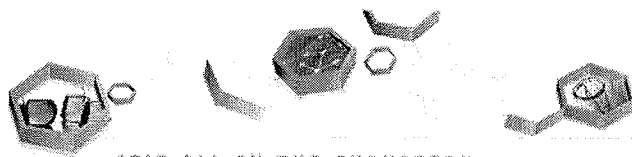
Sample Summary

Osage of Virginia

Job No: F47849

AS 4158, MCAS, NC
Project No: CTO 0001

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F47849-1	03/08/07	15:55 TE	03/10/07	AQ	Ground Water	USTAS4158-MW01
F47849-2	03/08/07	16:20 TE	03/10/07	AQ	Ground Water	USTAS4158-MW07
F47849-3	03/08/07	15:07 TE	03/10/07	AQ	Ground Water	USTAS4158-MW08
F47849-4	03/08/07	12:40 TE	03/10/07	AQ	Ground Water	USTAS4158-MW09
F47849-5	03/08/07	13:22 TE	03/10/07	AQ	Ground Water	USTAS4158-MW10
F47849-6	03/08/07	14:10 TE	03/10/07	AQ	Ground Water	USTAS4158-MW11
F47849-7	03/08/07	12:10 TE	03/10/07	AQ	Ground Water	USTAS4158-MW13
F47849-8	03/08/07	11:48 TE	03/10/07	AQ	Ground Water	USTAS4158-MW14
F47849-9	03/08/07	11:01 TE	03/10/07	AQ	Ground Water	USTAS4158-MW15
F47849-10	03/08/07	10:00 TE	03/10/07	AQ	Ground Water	USTAS4158-MW17
F47849-11	03/08/07	00:00 TE	03/10/07	AQ	Ground Water	USTAS4158-DUPLICATE
F47849-12	03/08/07	00:00 TE	03/10/07	AQ	Trip Blank Water	TRIP BLANK



IT'S ALL IN THE CHEMISTRY

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	USTAS4158-MW01	Date Sampled:	03/08/07
Lab Sample ID:	F47849-1	Date Received:	03/10/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	AS 4158, MCAS, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018579.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW01
Lab Sample ID: F47849-1
Matrix: AQ - Ground Water
Method: EPA 624
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW01
 Lab Sample ID: F47849-1
 Matrix: AQ - Ground Water
 Method: EPA 625 EPA 625
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R07285.D	1	03/23/07	RB	03/13/07	OP19803	SR341
Run #2							

Run #	Initial Volume	Final Volume
Run #1	800 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	6.3	1.3	ug/l	
208-96-8	Acenaphthylene	ND	6.3	1.3	ug/l	
120-12-7	Anthracene	ND	6.3	1.3	ug/l	
56-55-3	Benzo(a)anthracene	ND	6.3	1.3	ug/l	
50-32-8	Benzo(a)pyrene	ND	6.3	1.3	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	6.3	1.3	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	6.3	2.5	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	6.3	1.3	ug/l	
218-01-9	Chrysene	ND	6.3	1.3	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	6.3	2.5	ug/l	
206-44-0	Fluoranthene	ND	6.3	1.3	ug/l	
86-73-7	Fluorene	ND	6.3	1.3	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	6.3	2.5	ug/l	
90-12-0	1-Methylnaphthalene	ND	6.3	1.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	6.3	1.3	ug/l	
91-20-3	Naphthalene	ND	6.3	1.3	ug/l	
85-01-8	Phenanthrene	ND	6.3	1.3	ug/l	
129-00-0	Pyrene	ND	6.3	1.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	81%		39-121%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: USTAS4158-MW01
Lab Sample ID: F47849-1
Matrix: AQ - Ground Water
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	03/12/07	03/12/07 RS	SW846 6010B ¹	SM 3030C ²

(1) Instrument QC Batch: MA5558

(2) Prep QC Batch: MP11451

RL = Reporting Limit

Report of Analysis

Client Sample ID: USTAS4158-MW07
 Lab Sample ID: F47849-2
 Matrix: AQ - Ground Water
 Method: EPA 624
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018592.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW07
Lab Sample ID: F47849-2
Matrix: AQ - Ground Water
Method: EPA 624
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW07
 Lab Sample ID: F47849-2
 Matrix: AQ - Ground Water
 Method: EPA 625 EPA 625
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R07286.D	1	03/23/07	RB	03/13/07	OP19803	SR341
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	ND	4.8	0.95	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	58%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW07	Date Sampled: 03/08/07
Lab Sample ID: F47849-2	Date Received: 03/10/07
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: AS 4158, MCAS, NC	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	03/12/07	03/12/07 RS	SW846 6010B ¹	SM 3030C ²

(1) Instrument QC Batch: MA5558

(2) Prep QC Batch: MP11451

RL = Reporting Limit

Report of Analysis

Client Sample ID: USTAS4158-MW08
 Lab Sample ID: F47849-3
 Matrix: AQ - Ground Water
 Method: EPA 624
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018594.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW08
Lab Sample ID: F47849-3
Matrix: AQ - Ground Water
Method: EPA 624
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW08
 Lab Sample ID: F47849-3
 Matrix: AQ - Ground Water
 Method: EPA 625 EPA 625
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R07287.D	1	03/23/07	RB	03/13/07	OP19803	SR341
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	56%		42-108%
321-60-8	2-Fluorobiphenyl	55%		40-106%
1718-51-0	Terphenyl-d14	63%		39-121%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: USTAS4158-MW08
Lab Sample ID: F47849-3
Matrix: AQ - Ground Water
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	03/12/07	03/12/07 RS	SW846 6010B ¹	SM 3030C ²

(1) Instrument QC Batch: MA5558

(2) Prep QC Batch: MP11451

RL = Reporting Limit

Report of Analysis

Client Sample ID:	USTAS4158-MW09	Date Sampled:	03/08/07
Lab Sample ID:	F47849-4	Date Received:	03/10/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	AS 4158, MCAS, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018587.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	10.5	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW09
Lab Sample ID: F47849-4
Matrix: AQ - Ground Water
Method: EPA 624
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	5.1	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	88%		84-120%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTAS4158-MW09	Date Sampled:	03/08/07
Lab Sample ID:	F47849-4	Date Received:	03/10/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	AS 4158, MCAS, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R07288.D	1	03/24/07	RB	03/13/07	OP19803	SR341
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	1.9	4.9	0.98	ug/l	J
208-96-8	Acenaphthylene	ND	4.9	0.98	ug/l	
120-12-7	Anthracene	ND	4.9	0.98	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.98	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.98	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.98	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.98	ug/l	
218-01-9	Chrysene	ND	4.9	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	2.0	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.98	ug/l	
86-73-7	Fluorene	1.4	4.9	0.98	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	2.0	ug/l	
90-12-0	1-Methylnaphthalene	2.4	4.9	0.98	ug/l	J
91-57-6	2-Methylnaphthalene	ND	4.9	0.98	ug/l	
91-20-3	Naphthalene	1.7	4.9	0.98	ug/l	J
85-01-8	Phenanthrene	ND	4.9	0.98	ug/l	
129-00-0	Pyrene	ND	4.9	0.98	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		42-108%
321-60-8	2-Fluorobiphenyl	53%		40-106%
1718-51-0	Terphenyl-d14	60%		39-121%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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2

Client Sample ID: USTAS4158-MW09
Lab Sample ID: F47849-4
Matrix: AQ - Ground Water
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead ^a	<100	100	ug/l	1	03/12/07	03/12/07 RS	SW846 6010B ¹	SM 3030C ²

(1) Instrument QC Batch: MA5558

(2) Prep QC Batch: MP11451

(a) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	USTAS4158-MW10	Date Sampled:	03/08/07
Lab Sample ID:	F47849-5	Date Received:	03/10/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	AS 4158, MCAS, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018595.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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2.5

2

Client Sample ID: USTAS4158-MW10
Lab Sample ID: F47849-5
Matrix: AQ - Ground Water
Method: EPA 624
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	91%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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2

Client Sample ID: USTAS4158-MW10
 Lab Sample ID: F47849-5
 Matrix: AQ - Ground Water
 Method: EPA 625 EPA 625
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R07289.D	1	03/24/07	RB	03/13/07	OP19803	SR341
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		42-108%
321-60-8	2-Fluorobiphenyl	61%		40-106%
1718-51-0	Terphenyl-d14	70%		39-121%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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2

Client Sample ID: USTAS4158-MW10
Lab Sample ID: F47849-5
Matrix: AQ - Ground Water
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	03/12/07	03/12/07 RS	SW846 6010B ¹	SM 3030C ²

(1) Instrument QC Batch: MA5558

(2) Prep QC Batch: MP11451

RL = Reporting Limit

Report of Analysis

Client Sample ID: USTAS4158-MW11
 Lab Sample ID: F47849-6
 Matrix: AQ - Ground Water
 Method: EPA 624
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018586.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8.3	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.8	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW11
Lab Sample ID: F47849-6
Matrix: AQ - Ground Water
Method: EPA 624
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	103%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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2

Client Sample ID: USTAS4158-MW11
 Lab Sample ID: F47849-6
 Matrix: AQ - Ground Water
 Method: EPA 625 EPA 625
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R07290.D	1	03/24/07	RB	03/13/07	OP19803	SR341
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		42-108%
321-60-8	2-Fluorobiphenyl	67%		40-106%
1718-51-0	Terphenyl-d14	73%		39-121%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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2

Client Sample ID: USTAS4158-MW11
Lab Sample ID: F47849-6
Matrix: AQ - Ground Water
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	03/12/07	03/12/07 RS	SW846 6010B ¹	SM 3030C ²

(1) Instrument QC Batch: MA5558

(2) Prep QC Batch: MP11451

RL = Reporting Limit

Report of Analysis

Client Sample ID: USTAS4158-MW13
 Lab Sample ID: F47849-7
 Matrix: AQ - Ground Water
 Method: EPA 624
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018596.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2	M0018642.D	2	03/15/07	CS	n/a	n/a	VM770

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	88.3 ^a	2.0	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	11.5	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	60.5	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	1.4	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW13
Lab Sample ID: F47849-7
Matrix: AQ - Ground Water
Method: EPA 624
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	32.3	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	96%	76-127%
2037-26-5	Toluene-D8	103%	99%	86-112%
460-00-4	4-Bromofluorobenzene	88%	98%	84-120%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTAS4158-MW13	Date Sampled:	03/08/07
Lab Sample ID:	F47849-7	Date Received:	03/10/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	AS 4158, MCAS, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R07291.D	1	03/24/07	RB	03/13/07	OP19803	SR341
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	1.3	4.8	0.95	ug/l	J
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	67%		39-121%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: USTAS4158-MW13
Lab Sample ID: F47849-7
Matrix: AQ - Ground Water
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	03/12/07	03/12/07 RS	SW846 6010B ¹	SM 3030C ²

(1) Instrument QC Batch: MA5558

(2) Prep QC Batch: MP11451

RL = Reporting Limit

Report of Analysis

Client Sample ID: USTAS4158-MW14
 Lab Sample ID: F47849-8
 Matrix: AQ - Ground Water
 Method: EPA 624
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018597.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.62	1.0	0.50	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW14
Lab Sample ID: F47849-8
Matrix: AQ - Ground Water
Method: EPA 624
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	89%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTAS4158-MW14	Date Sampled:	03/08/07
Lab Sample ID:	F47849-8	Date Received:	03/10/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	AS 4158, MCAS, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R07292.D	1	03/24/07	RB	03/13/07	OP19803	SR341
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		42-108%
321-60-8	2-Fluorobiphenyl	69%		40-106%
1718-51-0	Terphenyl-d14	77%		39-121%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW14
Lab Sample ID: F47849-8
Matrix: AQ - Ground Water
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	03/12/07	03/12/07 RS	SW846 6010B ¹	SM 3030C ²

(1) Instrument QC Batch: MA5558

(2) Prep QC Batch: MP11451

RL = Reporting Limit

Report of Analysis

Client Sample ID: USTAS4158-MW15
 Lab Sample ID: F47849-9
 Matrix: AQ - Ground Water
 Method: EPA 624
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018589.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW15
Lab Sample ID: F47849-9
Matrix: AQ - Ground Water
Method: EPA 624
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	107%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW15
 Lab Sample ID: F47849-9
 Matrix: AQ - Ground Water
 Method: EPA 625 EPA 625
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R07293.D	1	03/24/07	RB	03/13/07	OP19803	SR341
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	0.99	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.99	ug/l	
120-12-7	Anthracene	ND	5.0	0.99	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.99	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.99	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.99	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.99	ug/l	
218-01-9	Chrysene	ND	5.0	0.99	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.99	ug/l	
86-73-7	Fluorene	ND	5.0	0.99	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	0.99	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.99	ug/l	
91-20-3	Naphthalene	ND	5.0	0.99	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.99	ug/l	
129-00-0	Pyrene	ND	5.0	0.99	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		42-108%
321-60-8	2-Fluorobiphenyl	71%		40-106%
1718-51-0	Terphenyl-d14	87%		39-121%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: USTAS4158-MW15
Lab Sample ID: F47849-9
Matrix: AQ - Ground Water
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	03/12/07	03/12/07 RS	SW846 6010B ¹	SM 3030C ²

(1) Instrument QC Batch: MA5558

(2) Prep QC Batch: MP11451

RL = Reporting Limit

Report of Analysis

Client Sample ID:	USTAS4158-MW17	Date Sampled:	03/08/07
Lab Sample ID:	F47849-10	Date Received:	03/10/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	AS 4158, MCAS, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018590.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	23.1	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW17
Lab Sample ID: F47849-10
Matrix: AQ - Ground Water
Method: EPA 624
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	105%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW17
 Lab Sample ID: F47849-10
 Matrix: AQ - Ground Water
 Method: EPA 625 EPA 625
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R07294.D	1	03/24/07	RB	03/13/07	OP19803	SR341
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		42-108%
321-60-8	2-Fluorobiphenyl	65%		40-106%
1718-51-0	Terphenyl-d14	85%		39-121%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-MW17
Lab Sample ID: F47849-10
Matrix: AQ - Ground Water
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	03/12/07	03/12/07 RS	SW846 6010B ¹	SM 3030C ²

(1) Instrument QC Batch: MA5558

(2) Prep QC Batch: MP11451

RL = Reporting Limit

Report of Analysis

Client Sample ID: USTAS4158-DUPLICATE
 Lab Sample ID: F47849-11
 Matrix: AQ - Ground Water
 Method: EPA 624
 Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
 Date Received: 03/10/07
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018591.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	23.1	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: USTAS4158-DUPLICATE
Lab Sample ID: F47849-11
Matrix: AQ - Ground Water
Method: EPA 624
Project: AS 4158, MCAS, NC

Date Sampled: 03/08/07
Date Received: 03/10/07
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	USTAS4158-DUPLICATE	Date Sampled:	03/08/07
Lab Sample ID:	F47849-11	Date Received:	03/10/07
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 625 EPA 625		
Project:	AS 4158, MCAS, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R07295.D	1	03/24/07	RB	03/13/07	OP19803	SR341
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		42-108%
321-60-8	2-Fluorobiphenyl	64%		40-106%
1718-51-0	Terphenyl-d14	80%		39-121%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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2.11

2

Client Sample ID: USTAS4158-DUPLICATE**Lab Sample ID:** F47849-11**Matrix:** AQ - Ground Water**Project:** AS 4158, MCAS, NC**Date Sampled:** 03/08/07**Date Received:** 03/10/07**Percent Solids:** n/a

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	03/12/07	03/12/07 RS	SW846 6010B ¹	SM 3030C ²

(1) Instrument QC Batch: MA5558

(2) Prep QC Batch: MP11451

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	03/08/07
Lab Sample ID:	F47849-12	Date Received:	03/10/07
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	AS 4158, MCAS, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0018578.D	1	03/13/07	CS	n/a	n/a	VM768
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	03/08/07
Lab Sample ID:	F47849-12	Date Received:	03/10/07
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	AS 4158, MCAS, NC		

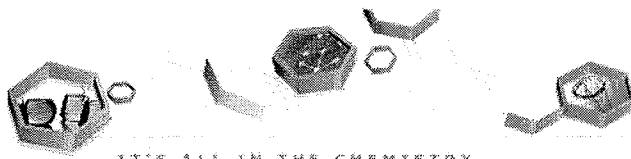
VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

**ACCUTEST.**

21107

Laboratories

CHAIN OF CUSTODY4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-8700 • FAX: 407-425-0707

ACCUTEST JOB #:

F47849

ACCUTEST QUOTE #:

CLIENT INFORMATION		FACILITY INFORMATION		ANALYTICAL INFORMATION												MATRIX CODES	
OSAGE OF VIRGINIA NAME 2618 A Colley Ave ADDRESS Norfolk VA 23517 CITY, STATE ZIP SEND REPORT TO: PHONE # 757-440-0400		CTO 0001 PROJECT NAME AS4158 MBAS LOCATION CTO 0001 PROJECT NO. FAX # 757-440-0411		625 PAH 624 EDA 623 METALS (30301) only												DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID	
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION		SAMPLER	SAMPLING METHOD	PRESERVATION										LAB USE ONLY	
		DATE	TIME			BY	ACID	ALCOHOL	COOL	FREEZE	OTHER	DATE	TIME	BY			
1	USTAS4158-MW01	3/8/07	1555	TE	GW	6	3	1	2	X	X	X					
2	USTAS4158-MW07	3/8/07	1620	TE	GW	6	3	X	X	X	X	X					
3	USTAS4158-MW08	3/8/07	1507	TE	GW	6	3	X	X	X	X	X					
4	USTAS4158-MW09	3/8/07	1240	TE	GW	6	3	X	X	X	X	X					
5	USTAS4158-MW10	3/8/07	1322	TE	GW	6	3	X	X	X	X	X					
6	USTAS4158-MW11	3/8/07	1410	TE	GW	6	3	X	X	X	X	X					
7	USTAS4158-MW13	3/8/07	1210	TE	GW	6	3	X	X	X	X	X					
8	USTAS4158-MW14	3/8/07	1148	TE	GW	6	3	X	X	X	X	X					
9	USTAS4158-MW15	3/8/07	1101	TE	GW	6	3	X	X	X	X	X					
10	USTAS4158-MW17	3/8/07	1000	TE	GW	6	3	X	X	X	X	X					
11	USTAS4158-DUPLICATE	3/8/07	—	TE	GW	6	3	X	X	X	X	X					
DATA TURNAROUND INFORMATION ☒ STANDARD ☐ 48 HOUR RUSH ☐ 24 HOUR EMERGENCY ☐ OTHER EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		DATA DELIVERABLE INFORMATION ☐ STANDARD ☐ COMMERCIAL "B" ☐ DISK DELIVERABLE ☐ STATE FORMS ☒ OTHER (SPECIFY) EDD		COMMENTS/REMARKS EMAIL RESULTS TO: "EDD FORMAT" MCREE@OSAGEVA.COM JAMES.WILSON@SHAWGRP.COM MARK.MARTIN@SHAWGRP.COM													
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																	
RELINQUISHED BY: 3/9/07 3/9/07 DATE TIME:		RECEIVED BY: FX 3/9/07 DATE TIME:		RELINQUISHED BY: FX 3/10/07 DATE TIME:		RECEIVED BY: 3/10/07 9:35 DATE TIME:		3/10/07 DATE TIME:									
RELINQUISHED BY: 3 3 DATE TIME:		RECEIVED BY: 3 3 DATE TIME:		RELINQUISHED BY: 4 4 DATE TIME:		RECEIVED BY: 4 4 DATE TIME:		4 DATE TIME:									
RELINQUISHED BY: 5 5 DATE TIME:		RECEIVED BY: 5 5 DATE TIME:		RELINQUISHED BY: 6 6 DATE TIME:		RECEIVED BY: 6 6 DATE TIME:		6 DATE TIME:									
PRESERVE WHERE APPLICABLE ☐ ON ICE ☐ TEMPERATURE ☐ C																	

F47849: Chain of Custody

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ACCUTEST.
Laboratories

21106

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-8700 • FAX: 407-425-0707

ACCUTEST JOB #:

F47849

ACCUTEST QUOTE #:

[illegible]

62

F47849: Chain of Custody

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F47 849 CLIENT: OSage of Virginia PROJECT: CTO 0001
 DATE/TIME RECEIVED: 3-10-07 11:35 # OF COOLERS RECEIVED: 4 COOLER TEMPS: 0.2 0.4 0.6 1.0
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: _____

COOLER INFORMATION

- ☐ CUSTODY SEAL NOT PRESENT OR NOT INTACT
- ☐ CHAIN OF CUSTODY NOT RECEIVED (COC)
- ☐ ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- ☐ SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- ☐ TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- ☒ TRIP BLANK PROVIDED
- ☐ TRIP BLANK NOT PROVIDED
- ☐ TRIP BLANK NOT ON COC
- ☒ TRIP BLANK INTACT
- ☐ TRIP BLANK NOT INTACT
- ☒ RECEIVED WATER TRIP BLANK
- ☐ RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 0
 NUMBER OF 5035 FIELD KITS ? 0
 NUMBER OR LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS:

Received one 625 pH amber
broken for samples #5, #11

SAMPLE INFORMATION

- ☐ SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- ☐ CORRECT NUMBER OF CONTAINERS USED
- ☐ SAMPLE RECEIVED IMPROPERLY PRESERVED
- ☐ INSUFFICIENT VOLUME FOR ANALYSIS
- ☐ TIMES ON COC DOES NOT MATCH LABEL(S)
- ☐ ID'S ON COC DOES NOT MATCH LABEL(S)
- ☐ VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- ☐ BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- ☐ NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- ☐ UNCLEAR FILTERING INSTRUCTIONS
- ☐ UNCLEAR COMPOSITING INSTRUCTIONS
- ☒ SAMPLE CONTAINER(S) RECEIVED BROKEN
- ☐ % SOLIDS JAR NOT RECEIVED
- ☐ 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- ☐ RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE JMC 3-16-07 TECHNICIAN SIGNATURE/DATE _____ ASBD 10/03/06

F47849: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM768-MB	M0018573.D 1		03/13/07	CS	n/a	n/a	VM768

The QC reported here applies to the following samples:

Method: EPA 624

F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11, F47849-12

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

Method Blank Summary

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Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM768-MB	M0018573.D	1	03/13/07	CS	n/a	n/a	VM768

The QC reported here applies to the following samples:

Method: EPA 624

F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11, F47849-12

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	87-116%
17060-07-0	1,2-Dichloroethane-D4	102%	76-127%
2037-26-5	Toluene-D8	106%	86-112%
460-00-4	4-Bromofluorobenzene	94%	84-120%

Method Blank Summary

Page 1 of 1

Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM770-MB	M0018638.D	1	03/15/07	CS	n/a	n/a	VM770

The QC reported here applies to the following samples:

Method: EPA 624

F47849-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 87-116%
17060-07-0	1,2-Dichloroethane-D4	92% 76-127%
2037-26-5	Toluene-D8	100% 86-112%
460-00-4	4-Bromofluorobenzene	101% 84-120%

Blank Spike Summary

Page 1 of 2

Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM768-BS	M0018572.D 1		03/13/07	CS	n/a	n/a	VM768

The QC reported here applies to the following samples:

Method: EPA 624

F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11, F47849-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	27.4	110	83-124
75-27-4	Bromodichloromethane	25	25.1	100	76-116
75-25-2	Bromoform	25	25.2	101	68-128
108-90-7	Chlorobenzene	25	25.7	103	87-115
75-00-3	Chloroethane	25	31.2	125	54-166
67-66-3	Chloroform	25	26.5	106	85-123
110-75-8	2-Chloroethyl vinyl ether	125	135	108	63-125
56-23-5	Carbon tetrachloride	25	26.2	105	74-139
75-34-3	1,1-Dichloroethane	25	27.1	108	82-127
75-35-4	1,1-Dichloroethylene	25	27.4	110	75-133
107-06-2	1,2-Dichloroethane	25	25.2	101	76-122
78-87-5	1,2-Dichloropropane	25	26.3	105	81-120
124-48-1	Dibromochloromethane	25	24.1	96	74-116
75-71-8	Dichlorodifluoromethane	25	45.1	180*	34-158
156-59-2	cis-1,2-Dichloroethylene	25	25.6	102	81-114
10061-01-5	cis-1,3-Dichloropropene	25	26.6	106	83-119
541-73-1	m-Dichlorobenzene	25	24.0	96	86-115
95-50-1	o-Dichlorobenzene	25	23.8	95	85-115
106-46-7	p-Dichlorobenzene	25	24.1	96	87-113
156-60-5	trans-1,2-Dichloroethylene	25	27.3	109	82-126
10061-02-6	trans-1,3-Dichloropropene	25	27.9	112	87-123
100-41-4	Ethylbenzene	25	27.5	110	87-118
74-83-9	Methyl bromide	25	33.1	132	55-151
74-87-3	Methyl chloride	25	38.6	154	55-173
75-09-2	Methylene chloride	25	25.6	102	69-125
1634-04-4	Methyl Tert Butyl Ether	25	25.1	100	75-116
71-55-6	1,1,1-Trichloroethane	25	27.7	111	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.0	96	71-120
79-00-5	1,1,2-Trichloroethane	25	26.1	104	80-114
127-18-4	Tetrachloroethylene	25	28.1	112	80-131
108-88-3	Toluene	25	27.0	108	86-116
79-01-6	Trichloroethylene	25	25.5	102	85-124
75-69-4	Trichlorofluoromethane	25	33.1	132	66-156
75-01-4	Vinyl chloride	25	37.0	148	57-153
1330-20-7	Xylene (total)	75	84.2	112	86-120

Blank Spike Summary

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Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM768-BS	M0018572.D	1	03/13/07	CS	n/a	n/a	VM768

The QC reported here applies to the following samples:

Method: EPA 624

F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11, F47849-12

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	94%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	76-127%
2037-26-5	Toluene-D8	104%	86-112%
460-00-4	4-Bromofluorobenzene	95%	84-120%

Blank Spike Summary

Page 1 of 1

Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM770-BS	M0018637.D 1		03/14/07	CS	n/a	n/a	VM770

The QC reported here applies to the following samples:

Method: EPA 624

F47849-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.0	104	83-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	76-127%
2037-26-5	Toluene-D8	98%	86-112%
460-00-4	4-Bromofluorobenzene	92%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F47836-2MS	M0018580.D	10	03/13/07	CS	n/a	n/a	VM768
F47836-2MSD	M0018581.D	10	03/13/07	CS	n/a	n/a	VM768
F47836-2	M0018575.D	10	03/13/07	CS	n/a	n/a	VM768

The QC reported here applies to the following samples:

Method: EPA 624

F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11, F47849-12

CAS No.	Compound	F47836-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	344		250	583	96	543	80*	7	83-124/11
75-27-4	Bromodichloromethane	ND		250	243	97	237	95	3	76-116/10
75-25-2	Bromoform	ND		250	251	100	244	98	3	68-128/11
108-90-7	Chlorobenzene	ND		250	247	99	232	93	6	87-115/9
75-00-3	Chloroethane	ND		250	314	126	299	120	5	54-166/20
67-66-3	Chloroform	ND		250	261	104	254	102	3	85-123/10
110-75-8	2-Chloroethyl vinyl ether	ND		1250	354	28*	272	22*	26*	63-125/24
56-23-5	Carbon tetrachloride	ND		250	252	101	248	99	2	74-139/13
75-34-3	1,1-Dichloroethane	ND		250	267	107	253	101	5	82-127/10
75-35-4	1,1-Dichloroethylene	ND		250	263	105	254	102	3	75-133/13
107-06-2	1,2-Dichloroethane	ND		250	250	100	239	96	4	76-122/11
78-87-5	1,2-Dichloropropane	ND		250	256	102	241	96	6	81-120/11
124-48-1	Dibromochloromethane	ND		250	232	93	225	90	3	74-116/11
75-71-8	Dichlorodifluoromethane	ND		250	445	178*	451	180*	1	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND		250	249	100	235	94	6	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		250	252	101	241	96	4	83-119/10
541-73-1	m-Dichlorobenzene	ND		250	233	93	217	87	7	86-115/9
95-50-1	o-Dichlorobenzene	ND		250	233	93	216	86	8	85-115/9
106-46-7	p-Dichlorobenzene	ND		250	233	93	217	87	7	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND		250	264	106	249	100	6	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND		250	275	110	263	105	4	87-123/10
100-41-4	Ethylbenzene	891		250	1080	76* a	1000	44* a	8	87-118/10
74-83-9	Methyl bromide	ND		250	322	129	301	120	7	55-151/21
74-87-3	Methyl chloride	ND		250	361	144	345	138	5	55-173/22
75-09-2	Methylene chloride	13.8		250	256	97	238	90	7	69-125/11
1634-04-4	Methyl Tert Butyl Ether	726		250	946	88	935	84	1	75-116/10
71-55-6	1,1,1-Trichloroethane	ND		250	271	108	265	106	2	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	242	97	234	94	3	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		250	256	102	246	98	4	80-114/11
127-18-4	Tetrachloroethylene	ND		250	267	107	260	104	3	80-131/12
108-88-3	Toluene	114		250	380	106	354	96	7	86-116/10
79-01-6	Trichloroethylene	ND		250	248	99	235	94	5	85-124/10
75-69-4	Trichlorofluoromethane	ND		250	321	128	308	123	4	66-156/15
75-01-4	Vinyl chloride	ND		250	365	146	357	143	2	57-153/22
1330-20-7	Xylene (total)	1500		750	2180	91	2040	72* a	7	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F47836-2MS	M0018580.D	10	03/13/07	CS	n/a	n/a	VM768
F47836-2MSD	M0018581.D	10	03/13/07	CS	n/a	n/a	VM768
F47836-2	M0018575.D	10	03/13/07	CS	n/a	n/a	VM768

The QC reported here applies to the following samples:

Method: EPA 624

F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11, F47849-12

CAS No.	Surrogate Recoveries	MS	MSD	F47836-2	Limits
1868-53-7	Dibromofluoromethane	94%	95%	94%	87-116%
17060-07-0	1,2-Dichloroethane-D4	101%	104%	102%	76-127%
2037-26-5	Toluene-D8	105%	104%	105%	86-112%
460-00-4	4-Bromofluorobenzene	94%	92%	92%	84-120%

(a) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F47886-3MS	M0018640.D	50	03/15/07	CS	n/a	n/a	VM770
F47886-3MSD	M0018641.D	50	03/15/07	CS	n/a	n/a	VM770
F47886-3	M0018656.D	20	03/15/07	CS	n/a	n/a	VM770
F47886-3 ^a	M0018639.D	50	03/15/07	CS	n/a	n/a	VM770

The QC reported here applies to the following samples:

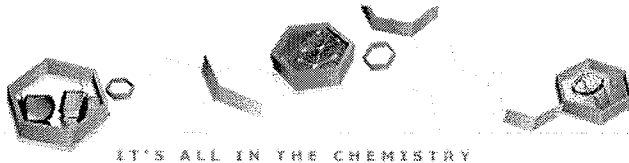
Method: EPA 624

F47849-7

CAS No.	Compound	F47886-3 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1020		1250	2370	108	2200	94	7	83-124/11

CAS No.	Surrogate Recoveries	MS	MSD	F47886-3	F47886-3	Limits
1868-53-7	Dibromofluoromethane	101%	100%	98%	99%	87-116%
17060-07-0	1,2-Dichloroethane-D4	97%	98%	93%	93%	76-127%
2037-26-5	Toluene-D8	99%	97%	98%	99%	86-112%
460-00-4	4-Bromofluorobenzene	92%	95%	99%	101%	84-120%

(a) Confirmation run.



GC/MS Semi-volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19803-MB	R07284.D	1	03/23/07	RB	03/13/07	OP19803	SR341

The QC reported here applies to the following samples:

Method: EPA 625

F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
4165-60-0	Nitrobenzene-d5	66% 42-108%
321-60-8	2-Fluorobiphenyl	64% 40-106%
1718-51-0	Terphenyl-d14	76% 39-121%

Blank Spike Summary

Page 1 of 1

Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19803-BS	R07283.D	1	03/23/07	RB	03/13/07	OP19803	SR341

The QC reported here applies to the following samples:

Method: EPA 625

F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	50	36.7	73	58-106
208-96-8	Acenaphthylene	50	36.1	72	58-105
120-12-7	Anthracene	50	39.1	78	65-108
56-55-3	Benzo(a)anthracene	50	38.8	78	63-111
50-32-8	Benzo(a)pyrene	50	38.8	78	62-106
205-99-2	Benzo(b)fluoranthene	50	39.2	78	63-109
191-24-2	Benzo(g,h,i)perylene	50	39.2	78	61-111
207-08-9	Benzo(k)fluoranthene	50	40.3	81	64-111
218-01-9	Chrysene	50	40.2	80	64-111
53-70-3	Dibenzo(a,h)anthracene	50	38.8	78	62-112
206-44-0	Fluoranthene	50	41.1	82	65-114
86-73-7	Fluorene	50	38.8	78	61-106
193-39-5	Indeno(1,2,3-cd)pyrene	50	39.3	79	61-113
90-12-0	1-Methylnaphthalene	50	33.1	66	52-102
91-57-6	2-Methylnaphthalene	50	34.3	69	56-112
91-20-3	Naphthalene	50	31.7	63	50-104
85-01-8	Phenanthrene	50	39.2	78	65-108
129-00-0	Pyrene	50	37.8	76	60-113

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	65%	42-108%
321-60-8	2-Fluorobiphenyl	65%	40-106%
1718-51-0	Terphenyl-d14	71%	39-121%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: F47849

Account: OSAGEVAN Osage of Virginia

Project: AS 4158, MCAS, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19803-MS	R07296.D	1	03/24/07	RB	03/13/07	OP19803	SR341
OP19803-MSD	R07297.D	1	03/24/07	RB	03/13/07	OP19803	SR341
F47849-6	R07290.D	1	03/24/07	RB	03/13/07	OP19803	SR341

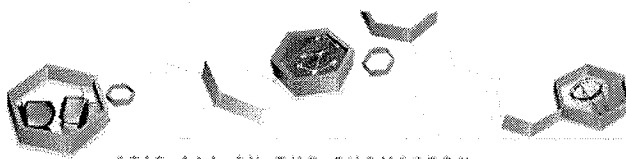
The QC reported here applies to the following samples:

Method: EPA 625

F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11

CAS No.	Compound	F47849-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		96.2	67.0	70	75.0	78	11	58-106/21
208-96-8	Acenaphthylene	ND		96.2	65.2	68	74.4	77	13	58-105/21
120-12-7	Anthracene	ND		96.2	71.3	74	77.0	80	8	65-108/19
56-55-3	Benzo(a)anthracene	ND		96.2	72.2	75	78.2	81	8	63-111/19
50-32-8	Benzo(a)pyrene	ND		96.2	71.0	74	76.8	80	8	62-106/20
205-99-2	Benzo(b)fluoranthene	ND		96.2	74.5	77	78.4	82	5	63-109/20
191-24-2	Benzo(g,h,i)perylene	ND		96.2	67.8	71	75.2	78	10	61-111/21
207-08-9	Benzo(k)fluoranthene	ND		96.2	74.5	77	78.9	82	6	64-111/20
218-01-9	Chrysene	ND		96.2	73.5	76	80.1	83	9	64-111/19
53-70-3	Dibenzo(a,h)anthracene	ND		96.2	68.6	71	76.6	80	11	62-112/20
206-44-0	Fluoranthene	ND		96.2	75.9	79	86.2	90	13	65-114/21
86-73-7	Fluorene	ND		96.2	71.6	74	80.8	84	12	61-106/19
193-39-5	Indeno(1,2,3-cd)pyrene	ND		96.2	68.9	72	77.1	80	11	61-113/20
90-12-0	1-Methylnaphthalene	ND		96.2	62.4	65	73.5	76	16	52-102/25
91-57-6	2-Methylnaphthalene	ND		96.2	62.8	65	75.1	78	18	56-112/26
91-20-3	Naphthalene	ND		96.2	59.1	61	70.4	73	17	50-104/28
85-01-8	Phenanthrene	ND		96.2	71.6	74	78.2	81	9	65-108/20
129-00-0	Pyrene	ND		96.2	72.3	75	72.6	76	0	60-113/20

CAS No.	Surrogate Recoveries	MS	MSD	F47849-6	Limits
4165-60-0	Nitrobenzene-d5	60%	71%	70%	42-108%
321-60-8	2-Fluorobiphenyl	59%	68%	67%	40-106%
1718-51-0	Terphenyl-d14	72%	72%	73%	39-121%



Metals Analysis



QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F47849
Account: OSAGEVAN - Osage of Virginia
Project: AS 4158, MCAS, NC

QC Batch ID: MP11451
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/12/07

Metal	RL	IDL	MB raw	final
Aluminum	200	18		
Antimony	6.0	3.4		
Arsenic	10	2.8		
Barium	200	5		
Beryllium	4.0	1		
Cadmium	5.0	1		
Calcium	1000	42		
Chromium	10	.6		
Cobalt	50	1		
Copper	25	.9		
Iron	300	12		
Lead	5.0	1.7	0.54	<5.0
Magnesium	5000	4.3		
Manganese	15	.6		
Molybdenum	50	1.3		
Nickel	40	1		
Potassium	10000	10		
Selenium	10	2		
Silver	10	.9		
Sodium	10000	500		
Thallium	10	2.3		
Tin	50	3.1		
Vanadium	50	.6		
Zinc	20	1.3		

Associated samples MP11451: F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

6.1.1

6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F47849
Account: OSAGEVAN - Osage of Virginia
Project: AS 4158, MCAS, NC

QC Batch ID: MP11451
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/12/07 03/12/07

Metal	F47849-1 Original DUP		RPD	QC Limits	F47849-1 Original MS		Spikelot MPFLICP1 % Rec	QC Limits
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead	2.1	2.0	4.9	0-20	2.1	498	500	99.2 80-120
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Tin								
Vanadium								
Zinc								

Associated samples MP11451: F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

6.1.2

6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F47849
Account: OSAGEVAN - Osage of Virginia
Project: AS 4158, MCAS, NC

QC Batch ID: MP11451
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/12/07

Metal	F47849-1 Original MSD	Spikelot MPFLICP1 % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	2.1	489	500	97.4
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP11451: F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

6.1.2

6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F47849
Account: OSAGEVAN - Osage of Virginia
Project: AS 4158, MCAS, NC

QC Batch ID: MP11451
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/12/07

Metal	BSP Result	Spikelot MPFLICP1 % Rec	QC Limits
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron			
Lead	523	500	104.6 80-120
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Tin			
Vanadium			
Zinc			

Associated samples MP11451: F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

6.1.3

6

SERIAL DILUTION RESULTS SUMMARY

Login Number: F47849
Account: OSAGEVAN - Osage of Virginia
Project: AS 4158, MCAS, NC

QC Batch ID: MP11451
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 03/12/07

Metal	F47849-1 Original	SDL 1:5	RPD	QC Limits
-------	----------------------	---------	-----	--------------

Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead	2.05	0.00	100.0(a)	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP11451: F47849-1, F47849-2, F47849-3, F47849-4, F47849-5, F47849-6, F47849-7, F47849-8, F47849-9, F47849-10, F47849-11

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

6.1.4

6

APPENDIX C

HISTORICAL GROUNDWATER LABORATORY DATA

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW01																	
Benzene	1	BQL	1	NS	BQL	6	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
Ethylbenzene	29	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
Toluene	1000	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
Total Xylenes	530	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
Naphthalene	21	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
Acenaphthene	80	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
Fluorene	280	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
Phenanthrene	210	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
Anthracene	2100	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
Pyrene	210	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL
2-Methylnaphthalen	28	BQL	BQL	NS	BQL	BQL	NS	NS	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

**Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina**

Well No./Contaminant	NCDENR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW01																
Benzene	1	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
Toluene	1000	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
Naphthalene	21	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
Fluorene	280	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
Anthracene	2100	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
Pyrene	210	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalen	Detection Limit	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalen	28	NS	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	NS	BQL	BQL	BQL	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW02																	
Benzene	1	BQL	23	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
Ethylbenzene	29	240	320	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
Toluene	1000	140	140	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
Total Xylenes	530	1020	1100	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
Naphthalene	21	14	18	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
Acenaphthene	80	BQL	BQL	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
Fluorene	280	BQL	BQL	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
Phenanthrene	210	BQL	BQL	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
Anthracene	2100	BQL	BQL	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
Pyrene	210	BQL	BQL	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	BQL	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL
2-Methylnaphthalen	28	BQL	BQL	NS	NS	NS	BQL	NS	NS	BQL	NS	NS	NS	NS	NS	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDEMR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW02																
Benzene	1	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	29	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Toluene	1000	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Total Xylenes	530	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	21	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	80	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	280	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	210	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	2100	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	210	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1-Methylnaphthalen	Detection Limit	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylnaphthalen	28	BQL	BQL	NS	BQL	BQL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW03																	
Benzene	1	BQL	BQL	BQL	BQL	BQL	1	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Ethylbenzene	29	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Toluene	1000	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Total Xylenes	530	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Naphthalene	21	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Acenaphthene	80	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Fluorene	280	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Phenanthrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Anthracene	2100	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Pyrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
2-Methylnaphthalen	28	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDEMR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW03																
Benzene	1	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
Ethylbenzene	29	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
Toluene	1000	BQL	BQL	13	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
Total Xylenes	530	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
Naphthalene	21	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
Acenaphthene	80	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
Fluorene	280	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
Phenanthrene	210	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
Anthracene	2100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
Pyrene	210	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
1-Methylnaphthalen	Detection Limit	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS
2-Methylnaphthalen	28	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	NS	NS	NS	NS	BQL	NS

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

**Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina**

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW04																	
Benzene	1	NS	BQL	BQL	BQL	BQL	1	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Ethylbenzene	29	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Toluene	1000	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Total Xylenes	530	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Naphthalene	21	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Acenaphthene	80	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Fluorene	280	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Phenanthrene	210	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Anthracene	2100	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Pyrene	210	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
2-Methylnaphthalen	28	NS	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW04																
Benzene	1	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Ethylbenzene	29	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Methyl-tert-butyl ether (MTBE)	200	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Toluene	1000	NS	2	BQL	BQL	BQL	BQL	BQL	BQL	1.3	BQL	BQL	BQL	1.4	BQL	NS
Total Xylenes	530	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Naphthalene	21	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Acenaphthene	80	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Fluorene	280	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Phenanthrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Anthracene	2100	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Pyrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
1-Methylnaphthalen	Detection Limit	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
2-Methylnaphthalen	28	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW05																	
Benzene	1	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Ethylbenzene	29	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Toluene	1000	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Total Xylenes	530	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Naphthalene	21	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Acenaphthene	80	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Fluorene	280	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Phenanthrene	210	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Anthracene	2100	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Pyrene	210	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
2-Methylnaphthalen	28	BQL	NS	NS	NS	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW05																
Benzene	1	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Ethylbenzene	29	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Toluene	1000	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.1	BQL	BQL	BQL	BQL	NS
Total Xylenes	530	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Naphthalene	21	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Acenaphthene	80	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Fluorene	280	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Phenanthrene	210	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Anthracene	2100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Pyrene	210	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
1-Methylnaphthalen	Detection Limit	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
2-Methylnaphthalen	28	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW07																	
Benzene	1	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Ethylbenzene	29	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Toluene	1000	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Total Xylenes	530	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Naphthalene	21	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Acenaphthene	80	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Fluorene	280	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Phenanthrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Anthracene	2100	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Pyrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
2-Methylnaphthalen	28	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDEMR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW07																
Benzene	1	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Naphthalene	21	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalen	28	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW08																	
Benzene	1	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Ethylbenzene	29	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Toluene	1000	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Total Xylenes	530	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Naphthalene	21	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Acenaphthene	80	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Fluorene	280	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Phenanthrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Anthracene	2100	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Pyrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
2-Methylnaphthalen	28	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

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Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDEMR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW08																
Benzene	1	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Naphthalene	21	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalen	Detection Limit	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalen	28	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

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Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW09																	
Benzene	1	NS	NS	NS	NS	NS	NS	110	NS	13	5	NS	6	17	NS	66	89
Ethylbenzene	29	NS	NS	NS	NS	NS	NS	86	NS	61	1	NS	BQL	1	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	NS	NS	NS	NS	NS	NS	26	NS	23	28	NS	13	23	NS	23	16
Toluene	1000	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	BQL	NS	BQL	BQL	NS	BQL	BQL
Total Xylenes	530	NS	NS	NS	NS	NS	NS	470	NS	321	55	NS	8	9	NS	BQL	BQL
Naphthalene	21	NS	NS	NS	NS	NS	NS	BQL	NS	56	68	NS	16	13	NS	BQL	BQL
Acenaphthene	80	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	17	NS	BQL	BQL	NS	BQL	BQL
Fluorene	280	NS	NS	NS	NS	NS	NS	BQL	NS	26	89	NS	22	20	NS	BQL	BQL
Phenanthrene	210	NS	NS	NS	NS	NS	NS	11000	NS	37	160	NS	29	20	NS	17	BQL
Anthracene	2100	NS	NS	NS	NS	NS	NS	11000	NS	BQL	20	NS	BQL	BQL	NS	BQL	BQL
Pyrene	210	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	22	NS	BQL	BQL	NS	BQL	30
1-Methylnaphthalen	Detection Limit	NS	NS	NS	NS	NS	NS	17000	NS	120	240	NS	62	51	NS	12	BQL
2-Methylnaphthalen	28	NS	NS	NS	NS	NS	NS	90000	NS	120	360	NS	31	23	NS	BQL	BQL

Above regulatory limits

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Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW09																
Benzene	1	NS	100	160	180	52	BQL	NS	NS	20.3	NS	18.7	NS	1.8	BQL	10.5
Ethylbenzene	29	NS	BQL	BQL	13	1	BQL	NS	NS	5.2	NS	6	NS	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	NS	11	10	BQL	6	2	NS	NS	2.2	NS	1.2	NS	2.3	BQL	BQL
Toluene	1000	NS	BQL	BQL	BQL	BQL	BQL	NS	NS	7.3	NS	BQL	NS	BQL	2.5	BQL
Total Xylenes	530	NS	BQL	32	24	2	BQL	NS	NS	62.3	NS	62.2	NS	18.1	11	5.1
Naphthalene	21	NS	BQL	54	28	BQL	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Acenaphthene	80	NS	BQL	BQL	17	BQL	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Fluorene	280	NS	BQL	BQL	BQL	BQL	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Phenanthrene	210	NS	11	23	BQL	BQL	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Anthracene	2100	NS	BQL	BQL	BQL	BQL	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
Pyrene	210	NS	13	14	BQL	BQL	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
1-Methylnaphthalen	Detection Limit	NS	BQL	63	13	BQL	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL	BQL
2-Methylnaphthalen	28	NS	11	35	13	BQL	BQL	NS	NS	BQL	NS	BQL	NS	BQL	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

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Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW10																	
Benzene	1	230	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Ethylbenzene	29	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Toluene	1000	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Total Xylenes	530	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Naphthalene	21	26	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Acenaphthene	80	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Fluorene	280	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Phenanthrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Anthracene	2100	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Pyrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	12	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
2-Methylnaphthalen	28	14	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW10																
Benzene	1	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Naphthalene	21	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalen	Detection Limit	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalen	28	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

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Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW11																	
Benzene	1	90	20	250	62	20	7	NS	5	NS	16	NS	2	BQL	NS	8	15
Ethylbenzene	29	4	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	130	7	26	10	40	12	NS	8	NS	13	NS	6	7	NS	9	9
Toluene	1000	24	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Total Xylenes	530	56	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Naphthalene	21	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Acenaphthene	80	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Fluorene	280	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Phenanthrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Anthracene	2100	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Pyrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
2-Methylnaphthalen	28	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL

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Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDEMR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW11																
Benzene	1	NS	16	10	2	3	1	2	BQL	2.5	2.7	6.7	4.4	BQL	BQL	8.3
Ethylbenzene	29	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	NS	7	4	5	8	12	13	7	6.8	7.0	3.3	7.8	80.3	29.9	4.8
Toluene	1000	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Naphthalene	21	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalen	Detection Limit	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalen	28	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

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**Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina**

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW13																	
Benzene	1	1700	140	1200	44	NS	NS	1	38	NS	NS	NS	6	BQL	NS	180	89
Ethylbenzene	29	220	19	440	7	NS	NS	BQL	3	NS	NS	NS	1	BQL	NS	34	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	150	56	NS	NS	7	18	NS	NS	NS	16	17	NS	69	55
Toluene	1000	270	BQL	1300	BQL	NS	NS	BQL	7	NS	NS	NS	BQL	BQL	NS	190	26
Total Xylenes	530	580	BQL	2020	10	NS	NS	BQL	BQL	NS	NS	NS	BQL	BQL	NS	290	19
Naphthalene	21	47	BQL	64	BQL	NS	NS	BQL	36	NS	NS	NS	BQL	BQL	NS	13	BQL
Acenaphthene	80	BQL	BQL	BQL	BQL	NS	NS	BQL	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Fluorene	280	BQL	BQL	BQL	BQL	NS	NS	BQL	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Phenanthrene	210	BQL	BQL	BQL	BQL	NS	NS	BQL	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Anthracene	2100	BQL	BQL	BQL	BQL	NS	NS	BQL	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
Pyrene	210	BQL	BQL	BQL	BQL	NS	NS	BQL	BQL	NS	NS	NS	BQL	BQL	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	BQL	BQL	BQL	NS	NS	BQL	22	NS	NS	NS	BQL	BQL	NS	BQL	BQL
2-Methylnaphthalen	28	11	BQL	BQL	BQL	NS	NS	BQL	32	NS	NS	NS	BQL	BQL	NS	BQL	BQL

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Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit		7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW13																	
Benzene	1	NS	300	150	35	5	BQL	3	3	49.5	1.9	35.1	2	BQL	BQL	BQL	88.3
Ethylbenzene	29	NS	550	43	3	BQL	BQL	BQL	BQL	4.5	BQL	3.6	BQL	BQL	BQL	BQL	11.5
Methyl-tert-butyl ether (MTBE)	200	NS	BQL	35	52	62	42	15	34	47.4	35.7	38.4	53.7	35.7	47.4	60.5	
Toluene	1000	NS	610	67	7	BQL	BQL	BQL	BQL	1.1	BQL	1.9	BQL	BQL	BQL	BQL	1.4
Total Xylenes	530	NS	1280	154	13	BQL	BQL	BQL	BQL	9.7	BQL	8.3	BQL	BQL	BQL	BQL	32.3
Naphthalene	21	NS	90	11	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalen	Detection Limit	NS	14	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalen	28	NS	13	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

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Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW14																	
Benzene	1	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Ethylbenzene	29	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Toluene	1000	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Total Xylenes	530	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Naphthalene	21	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Acenaphthene	80	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Fluorene	280	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Phenanthrene	210	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Anthracene	2100	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Pyrene	210	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
2-Methylnaphthalen	28	BQL	BQL	NS	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL

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**Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina**

Well No./Contaminant	NCDENR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW14																
Benzene	1	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.4	BQL	BQL	BQL	BQL
Total Xylenes	530	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Naphthalene	21	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalen	Detection Limit	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalen	28	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Above regulatory limits

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Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW15																	
Benzene	1	1	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Ethylbenzene	29	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Toluene	1000	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Total Xylenes	530	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Naphthalene	21	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Acenaphthene	80	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Fluorene	280	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Phenanthrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Anthracene	2100	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Pyrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
2-Methylnaphthalen	28	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL

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Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDEMR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW15																
Benzene	1	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29	NS	BQL	BQL	2	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000	NS	BQL	BQL	1	BQL	BQL	BQL	BQL	NS	BQL	BQL	1.3	BQL	1	BQL
Total Xylenes	530	NS	BQL	BQL	6	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL
Naphthalene	21	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalen	Detection Limit	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalen	28	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW17																	
Benzene	1	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Ethylbenzene	29	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	3
Toluene	1000	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Total Xylenes	530	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Naphthalene	21	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Acenaphthene	80	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Fluorene	280	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Phenanthrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Anthracene	2100	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
Pyrene	210	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
1-Methylnaphthalen	Detection Limit	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL
2-Methylnaphthalen	28	BQL	BQL	BQL	BQL	BQL	BQL	NS	BQL	NS	BQL	NS	BQL	BQL	NS	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW17																
Benzene	1	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	NS	3	3	8	8	8	10	9	31.9	30.2	28.1	33.7	33.5	29.4	23.1
Toluene	1000	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Naphthalene	21	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalen	Detection Limit	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalen	28	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDENR Reg Limit	3/27/98	5/15/98	6/24/98	7/23/98	10/21/98	1/25/99	2/16/99	4/19/99	5/7/99	7/14/99	7/30/99	10/20/99	1/12/00	3/23/00	4/25/00	7/26/00
MW18																	
Benzene	1	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
Ethylbenzene	29	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
Methyl-tert-butyl ether (MTBE)	200	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
Toluene	1000	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
Total Xylenes	530	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
Naphthalene	21	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
Acenaphthene	80	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
Fluorene	280	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
Phenanthrene	210	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
Anthracene	2100	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
Pyrene	210	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
1-Methylnaphthalen	Detection Limit	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS
2-Methylnaphthalen	28	BQL	NS	NS	NS	NS	NS	NS	BQL	NS	BQL	NS	NS	NS	NS	BQL	NS

Above regulatory limits

BQL - Below Quantitation Limit

NS - Not Sampled

Historical Summary of Detected Contaminants
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corp Air Station
New River, North Carolina

Well No./Contaminant	NCDEMR Reg Limit	7/27/00	10/18/00	1/4/01	4/17/01	7/16/01	10/15/01	1/15/02	4/15/02	4/14/04	7/12/04	10/7/04	1/4/05	4/5/05	7/27/05	3/8/07
MW18																
Benzene	1	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Ethylbenzene	29	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Methyl-tert-butyl ether (MTBE)	200	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Toluene	1000	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Total Xylenes	530	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Naphthalene	21	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Acenaphthene	80	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Fluorene	280	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Phenanthrene	210	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Anthracene	2100	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
Pyrene	210	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
1-Methylnaphthalen	Detection Limit	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS
2-Methylnaphthalen	28	NS	NS	NS	BQL	NS	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	NS

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