

**2006 ANNUAL MONITORING REPORT
BUILDING AS-4158
SOIL AND GROUNDWATER REMEDIATION
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

July 2006

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Atlantic Division

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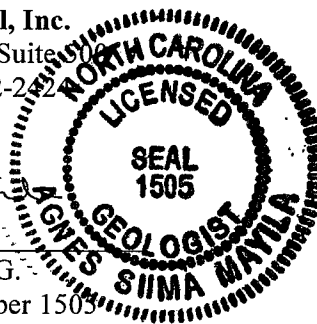
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ACRONYM LIST

AFVR	aggressive fluid-vapor recovery
AST	aboveground storage tank
BQL	Below Laboratory Quantitation Limits
CAP	Corrective Action Plan
Catlin	Catlin and Associates, Inc.
EEI	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 Department of the Navy Atlantic Division, Naval Facilities Engineering Command, (NAVFACENGCOM), 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 remediation and monitoring activities conducted from January 2006 through June 2006.

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 to install 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 to conduct 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 by MCB Camp Lejeune. The changes included foregoing the free phase product delineation activities in the vicinity of monitoring well MW-9 and instead conduct 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, the whole AS/SVE system was shut down since sampling data from 2005 indicated that contaminant levels decreased significantly enough to warrant deactivation, in which all groundwater well concentrations were below the North Carolina Groundwater Quality Standard (NCGWQS) during the last sampling event in August 2005. 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.

This 2006 Annual Monitoring Report documents the first six months of the gauging of site wells.

SECTION 1.0

INTRODUCTION

On behalf of the Department of the Navy Atlantic Division, NAVFACENGCOM, Shaw Environmental, Inc. has prepared this Annual Monitoring Report for the Building AS-4158 Site, Marine Corps Air Station (MCAS) New River, North Carolina (Figure 1.1). The purpose of this report is to present the findings and recommendations associated with operation of the soil and groundwater treatment system as well as groundwater monitoring activities from January 2006 through June 2006. 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 layout of the Building AS-4158 site. The facility is used to provide fuel and maintenance to vehicles at the air station. The site is specifically 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 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, we AS-4150, located approximately 650 feet east of the site was taken offline and shut down.

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 capacity 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, 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 which consists of two north-south oriented horizontal AS and SVE wells. 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 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 December 2005, 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, in 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.

The current activities were initiated in January 2006 and includes well gauging at 10 site monitoring wells conducted on a monthly basis for a period of 12 months. Well monitoring will be followed by a groundwater sampling event in January 2007 of select wells based on historical data 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 ft bls 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 groundwater 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 bls 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 bls 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 bls 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 June 2006.

2.1 GROUNDWATER MONITORING SUMMARY (1998-2006)

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. Groundwater elevations were measured monthly from January 2006 to June 2006 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. The groundwater elevation data for April 1998 through June 2006, including the depth to water and LNAPL, are presented in Table 1-1. 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. The groundwater sample collection field logs for the current groundwater gauging from January 2006 through June 2006 are provided in Appendix A.

January 2006 Gauging Event

On January 13, 2006, depth to groundwater ranged from 8.20 feet bls (MW-4) to 11.51 feet bls (MW-13) in the monitoring wells that were gauged. Figure 2-1 presents the groundwater elevation contour map for January 2006 from the Type II (shallow) monitoring wells. Groundwater elevations for the shallow wells ranged from 14.06 feet National Geodetic Vertical Datum (NGVD) in monitoring well MW-9 to 4.54 feet NGVD in monitoring well MW-10. In the central portion of the site, relatively elevated groundwater levels are observed, forming a southwest-to-northeast divide, with the crest observed at monitoring well MW-9. The shallow groundwater flows away from the divide to the northwest at a horizontal hydraulic gradient of 0.264 ft/ft from MW-9 to MW-10 and to the southeast at 0.076 ft/ft from MW-9 to MW-6. No free phase product was detected in any of the monitoring wells during the January 13, 2006 gauging event.

June 2006 Gauging Event

On June 12, 2006, depth to groundwater ranged from 7.06 feet bls (MW-4) to 11.38 feet bls (MW-13). Figure 2-2 presents the June 2006 groundwater elevation contours for the Type II (shallow) monitoring wells. Groundwater elevations for the shallow wells ranged from 15.13 feet NGVD in monitoring well MW-4 to 5.01 feet NGVD in monitoring well MW-10. The June 2006 event is very similar to the January 2006 event with an elevated southwest-to-northeast divide with the crest observed at monitoring well MW-9. The shallow groundwater flows away from the divide to the northwest at a horizontal hydraulic gradient of 0.241 ft/ft from MW-9 to MW-10 and to the southeast at 0.068 ft/ft from MW-9 to MW-6. No free phase product was detected in any of the monitoring wells during the June 12, 2006 gauging event.

2.2 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 are warranted at this time.

2.3 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 in December 2005 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 in July 2005.

2.4 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 December 2005 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 in August 2005. Free phase product measurements from April 1998 through June 2006 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. Samples were analyzed for VOCs and PAHs. This section summarizes these activities.

3.1 GROUNDWATER SAMPLING (1998-2005)

Groundwater monitoring well and soil vapor extraction effluent samples were collected monthly during the first quarter of operation of the treatment system and collected quarterly thereafter. Groundwater samples were delivered by overnight carrier to Paradigm, and analyzed for volatile aromatic hydrocarbons using USEPA Method 602 and USEPA Method 625 (reporting the Method 610 analyte list). 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.

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, benzene has not been detected above laboratory quantitation limits in groundwater samples from MW-1.

MW-2: VOCs including benzene, ethylbenzene, and total xylenes 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, no other VOCs have been detected above laboratory quantitation limits.

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 April 2005. Since the April 2005 sampling event, benzene has not been detected above laboratory quantitation limits.

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 below detection limits 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 below detection limits 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 below detection limits 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.

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 below laboratory quantitation limits.

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. Benzene was not detected during the last sampling event (July 2005) in the well.

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 sample events on July 2005, benzene was not detected above laboratory quantitation limits.
- 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-5, MW-7, MW-8, MW-12, and MW-14 through MW-18, during any of the sampling events conducted from March 1998 through July 2005. VOCs and PAHs were detected in MW-1 and MW-2 only during the earlier sampling events (1998). VOC and PAH constituents were not detected above NCDENR groundwater quality standards in any monitoring well at the site during the last sampling event in July 2005.

No groundwater sampling was conducted during January 2006 through June 2006 for this Annual Report.

Appendix B presents a summary of detected contaminant concentrations in the groundwater samples collected from the on-site groundwater monitoring wells from March 1998 through January 2003 by J.A. Jones and from April 2004 through August 2005 by EEI.

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

A CAP was prepared by 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 east of the site. The CAP recommended an 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.

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 this 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 has been 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.

During the last quarterly groundwater sampling event on July 27, 2005, all of the monitoring well concentrations were below the 15A NCAC 2L groundwater quality standards. The overall reduction in contaminant concentrations within the dissolved petroleum contaminant plume indicates that the AS/SVE system has been effective in volatilizing and removing the petroleum hydrocarbons present in the groundwater at the Building AS-4158 site.

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 650 feet east of the site. The study recommended to conduct 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 by MCB Camp Lejeune. The changes included foregoing the free phase product delineation activities in the vicinity of monitoring well MW-9 and instead conduct a risk-based sampling event in January 2007 as an alternative since no free phase product has been present in monitoring well MW-9 since January 2005 (0.02 feet). In addition, the whole AS/SVE system was shut down since 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 in August 2005. 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 risk-based 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 June 2006 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.

Shaw recommends continuing gauging the 10 site monitoring wells from July 2006 to December 2006 followed by a risk-based groundwater sampling event in January 2007 of select wells based on historical data to monitor post operational performance.

TABLES

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			3/21/2006		
		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	21.39		Not Measured			Not Measured			Not Measured			Not Measured	
MW-2	15.51		Not Measured			Not Measured			Not Measured			Not Measured	
MW-3	17.70		Not Measured			Not Measured			Not Measured			Not Measured	
MW-4	22.19		7.06	15.13 *		7.94	14.25		8.25	13.94		8.32	13.87
MW-5	22.10		8.76	13.34		8.23	13.87		8.38	13.72		8.53	13.57
MW-6	15.55		7.94	7.61		7.94	7.61		8.74	6.81		8.77	6.78
MW-7	22.11		9.32	12.79		8.95	13.16		8.15	13.96		8.75	13.36
MW-8	16.27		Not Measured			Not Measured			Not Measured			Not Measured	
MW-9 (Prod. Recovery Well)	23.14		9.45	13.69		9.26	13.88		9.27	13.87		8.94	14.20
MW-10	15.73		10.72	5.01		10.41	5.32		10.47	5.26		9.63	6.10
MW-11	23.84		11.05	12.79		10.77	13.07		10.87	12.97		10.40	13.44
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	24.12		11.38	12.74		11.10	13.02		11.19	12.93		10.67	13.45
MW-14	15.73		9.81	5.92		9.69	6.04		9.70	6.03		9.46	6.27
MW-15	23.99		Not Measured			Not Measured			Not Measured			Not Measured	
MW-16	22.19		9.64	12.55		9.18	13.01		9.26	12.93		8.77	13.42
MW-17	23.05		Not Measured			Not Measured			Not Measured			Not Measured	
MW-18	23.88		Not Measured			Not Measured			Not Measured			Not Measured	
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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)	1/13/2006			8/15/2005			7/26/2005			6/8/2005		
		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	21.39		Not Measured			13.76	7.63		14.34	7.05		13.86	7.53
MW-2	15.51		Not Measured			Not Measured			Not Measured			Not Measured	
MW-3	17.70		Not Measured			9.81	7.89		10.77	6.93		10.05	7.65
MW-4	22.19		8.20	13.99		14.29	7.90		14.71	7.48		13.96	8.23
MW-5	22.10		8.29	13.81		13.49	8.61		13.93	8.17		13.52	8.58
MW-6	15.55		8.35	7.20		6.62	8.93		8.10	7.45		6.96	8.59
MW-7	22.11		8.92	13.19		14.29	7.82		13.63	8.48		13.13	8.98
MW-8	16.27		Not Measured			7.13	9.14		7.27	9.00		6.83	9.44
MW-9 (Prod. Recovery Well)	23.14		9.08	14.06		13.54	9.60		14.07	9.07		13.91	9.23
MW-10	15.73		11.19	4.54		5.87	9.86		5.19	10.54		4.39	11.34
MW-11	23.84		10.74	13.10		12.91	10.93		13.13	10.71		12.72	11.12
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	24.12		11.51	12.61		12.94	11.18		12.72	11.40		12.28	11.84
MW-14	15.73		9.94	5.79		6.59	9.14		6.00	9.73		6.01	9.72
MW-15	23.99		Not Measured			14.40	9.59		13.89	10.10		13.97	10.02
MW-16	22.19		8.87	13.32		12.67	9.52		13.23	8.96		12.93	9.26
MW-17	23.05		Not Measured			12.43	10.62		12.74	10.31		12.57	10.48
MW-18	23.88		Not Measured			12.28	11.60		12.92	10.96		12.43	11.45
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹ System not operational during water level survey

² Groundwater elevation measurements same day prior to AFVR event.

³ Groundwater elevation measurements same day after AFVR event.

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)	5/3/2005			4/4/2005			3/1/2005			2/4/2005		
		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	21.39		13.44	7.95		Not Measured			Not Measured			13.02	8.37
MW-2	15.51		Not Measured			Not Measured			Not Measured			Not Measured	
MW-3	17.70		9.63	8.07		Not Measured			Not Measured			Not Measured	
MW-4	22.19		13.57	8.62		16.47	5.72		15.37	6.82		13.47	8.72
MW-5	22.10		13.28	8.82		15.24	6.86		13.50	8.60		13.00	9.10
MW-6	15.55		Not Measured			9.06	6.49		7.28	8.27		6.08	9.47
MW-7	22.11		13.06	9.05		17.17	4.94		12.87	9.24		12.10	10.01
MW-8	16.27		6.55	9.72		7.82	8.45		7.01	9.26		6.87	9.40
MW-9 (Prod. Recovery Well)	23.14		13.92	9.22		15.70	7.44		14.17	8.97		12.43	10.71
MW-10	15.73		7.03	8.70		Not Measured			7.21	8.52		4.71	11.02
MW-11	23.84		12.72	11.12		14.94	8.90		12.52	11.32		12.59	11.25
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	24.12		12.69	11.43		15.67	8.45		12.64	11.48		13.43	10.69
MW-14	15.73		6.11	9.62		Not Measured			6.60	9.13		6.19	9.54
MW-15	23.99		13.74	10.25		14.40	9.59		11.17	12.82		13.27	10.72
MW-16	22.19		12.60	9.59		13.41	8.78		12.26	9.93		13.72	8.47
MW-17	23.05		12.32	10.73		13.64	9.41		12.10	10.95		12.53	10.52
MW-18	23.88		12.25	11.63		13.35	10.53		12.06	11.82		13.43	10.45
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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)	1/4/2005			12/9/2004			11/4/2004			10/1/2004		
		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	21.39		12.94	8.45		13.06	8.33		13.62	7.77		17.39	4.00
MW-2	15.51		Not Measured			Not Measured			Not Measured			10.53	4.98
MW-3	17.70		Not Measured			Not Measured			Not Measured			Not Measured	
MW-4	22.19		13.29	8.90		13.61	8.58		13.94	8.25		14.85	7.34
MW-5	22.10		12.90	9.20		13.15	8.95		13.70	8.40		14.69	7.41
MW-6	15.55		6.03	9.52		6.17	9.38		6.67	8.88		8.16	7.39
MW-7	22.11		12.71	9.40		13.16	8.95		13.52	8.59		14.67	7.44
MW-8	16.27		6.06	10.21		6.37	9.90		7.11	9.16		8.46	7.81
MW-9 (Prod. Recovery Well)	23.14	13.81	13.83	9.31		13.84	9.30		14.58	8.56		14.77	8.37
MW-10	15.73		4.80	10.93		5.03	10.70		5.64	10.09		6.78	8.95
MW-11	23.84		12.56	11.28		12.83	11.01		13.46	10.38		19.01	4.83
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	24.12		12.56	11.56		12.84	11.28		13.43	10.69		13.90	10.22
MW-14	15.73		5.85	9.88		6.24	9.49		6.46	9.27		6.72	9.01
MW-15	23.99		13.16	10.83		13.43	10.56		14.11	9.88		14.50	9.49
MW-16	22.19		12.34	9.85		Not Measured			13.29	8.90		13.81	8.38
MW-17	23.05		12.07	10.98		12.40	10.65		12.85	10.20		13.92	9.13
MW-18	23.88		12.05	11.83		2.18	21.70		12.67	11.21		13.52	10.36
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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)	9/12/2004			8/12/2004			7/12/2004			6/9/2004		
		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	21.39		15.81	5.58		13.79	7.60		Not Measured			Not Measured	
MW-2	15.51		9.91	5.60		Not Measured			Not Measured			Not Measured	
MW-3	17.70		Not Measured			10.08	7.62		Not Measured			Not Measured	
MW-4	22.19		15.99	6.20		13.96	8.23		13.87	8.32		14.14	8.05
MW-5	22.10		15.28	6.82		13.58	8.52		13.25	8.85		13.67	8.43
MW-6	15.55		Not Measured			7.34	8.21		7.32	8.23		6.83	8.72
MW-7	22.11		14.79	7.32		13.21	8.90		12.89	9.22		13.31	8.80
MW-8	16.27		9.08	7.19		7.19	9.08		6.42	9.85		7.14	9.13
MW-9 (Prod. Recovery Well)	23.14		13.32	9.82		13.97	9.17	13.94	14.04	9.10		14.44	8.70
MW-10	15.73		7.75	7.98		6.28	9.45		5.65	10.08		6.17	9.56
MW-11	23.84		15.54	8.30		14.22	9.62		13.03	10.81		13.41	10.43
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	24.12		14.25	9.87		13.17	10.95		13.01	11.11		13.34	10.78
MW-14	15.73		7.00	8.73		6.13	9.60		6.14	9.59		6.55	9.18
MW-15	23.99		14.49	9.50		13.74	10.25		13.70	10.29		13.29	10.70
MW-16	22.19		14.76	7.43		13.04	9.15		12.81	9.38		13.27	8.92
MW-17	23.05		14.31	8.74		12.73	10.32		12.62	10.43		12.84	10.21
MW-18	23.88		14.05	9.83		12.68	11.20		13.38	10.50		12.60	11.28
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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)	5/6/2004			4/13/2004			1/14/2003			11/20/2002		
		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	21.39		Not Measured			Not Measured			Not Measured			Not Measured	
MW-2	15.51		8.69	6.82		Not Measured			Not Measured			Not Measured	
MW-3	17.70		Not Measured			Not Measured			9.69	8.01		7.24	10.46
MW-4	22.19		Not Measured			15.24	6.95		9.96	12.23		10.50	11.69
MW-5	22.10		Not Measured			14.50	7.60		10.00	12.10		10.72	11.38
MW-6	15.55		9.58	5.97		8.92	6.63		10.10	5.45		9.66	5.89
MW-7	22.11		14.34	7.77		13.89	8.22		10.49	11.62		11.77	10.34
MW-8	16.27		8.07	8.20		7.40	8.87		10.97	5.30		11.31	4.96
MW-9 (Prod. Recovery Well)	23.14	14.65	14.66	8.48		14.52	8.62	10.46	12.83	10.31	11.36	12.57	10.57
MW-10	15.73		6.60	9.13		6.18	9.55		11.63	4.10		14.14	1.59
MW-11	23.84		14.03	9.81		13.03	10.81		11.92	11.92		12.75	11.09
MW-12	22.03		Not Measured			Not Measured			Not Measured			Not Measured	
MW-13	24.12		13.95	10.17		13.63	10.49		12.38	11.74		14.35	9.77
MW-14	15.73		6.52	9.21		6.43	9.30		10.65	5.08		10.80	4.93
MW-15	23.99		14.81	9.18		15.56	8.43		11.94	12.05		11.74	12.25
MW-16	22.19		14.51	7.68		13.84	8.35		10.73	11.46		11.87	10.32
MW-17	23.05		14.07	8.98		13.36	9.69		11.60	11.45		12.38	10.67
MW-18	23.88		13.85	10.03		13.24	10.64		12.41	11.47		13.32	10.56
PW-1	22.80		Not Measured			Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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)	10/22/2002			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)
MW-1	21.39		5.55			Not Measured			Not Measured	
MW-2	15.51		6.18	9.33		Dry			Dry	
MW-3	17.70		9.90	7.80		8.57	9.13		9.70	8.00
MW-4	22.19		10.29	11.90		9.63	12.56		10.35	11.84
MW-5	22.10		10.39	11.71		9.20	12.90		10.28	11.82
MW-6	15.55		10.59	4.96		9.65	5.90		10.80	4.75
MW-7	22.11		10.65	11.46		9.28	12.83		10.41	11.70
MW-8	16.27		11.09	5.18		10.38	5.89		11.20	5.07
MW-9 (Prod. Recovery Well)	23.14	11.67	12.70	10.44	9.77	9.92	13.22	11.77	12.85	10.29
MW-10	15.73		12.00	3.73		9.99	5.74		10.90	4.83
MW-11	23.84		12.20	11.64		11.06	12.78		11.96	11.88
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	24.12		12.59	11.53		10.99	13.13		10.85	13.27
MW-14	15.73		10.68	5.05		10.44	5.29		10.12	5.61
MW-15	23.99		11.76	12.23		11.14	12.85		10.61	13.38
MW-16	22.19		10.99	11.20		9.95	12.24		11.20	10.99
MW-17	23.05		11.80	11.25		10.88	12.17		1.65	21.40
MW-18	23.88		12.61	11.27		11.75	12.13		12.70	11.18
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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	21.39		Not Measured			9.46			Not Measured	
MW-2	15.51		Dry			Dry			Dry	
MW-3	17.70		7.70	10.00		9.90	7.80		9.86	7.84
MW-4	22.19		11.03	11.16		10.54	11.65		10.37	11.82
MW-5	22.10		10.28	11.82		10.40	11.70		10.23	11.87
MW-6	15.55		11.16	4.39		10.68	4.87		10.57	4.98
MW-7	22.11		11.01	11.10		10.60	11.51		10.60	11.51
MW-8	16.27		11.60	4.67		11.22	5.05		11.11	5.16
MW-9 (Prod. Recovery Well)	23.14	11.77	12.46		*	12.20		10.88	11.68	11.46
MW-10	15.73		12.25			11.74			11.83	3.90
MW-11	23.84		12.80	11.04		12.15	11.69		12.12	11.72
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	24.12		13.01			12.41			12.45	11.67
MW-14	15.73		10.97	4.76		10.75	4.98		10.70	5.03
MW-15	23.99		12.60	11.39		12.01	11.98		11.86	12.13
MW-16	22.19		11.83	10.36		10.92	11.27		10.81	11.38
MW-17	23.05		12.23	10.82		11.81	11.24		11.72	11.33
MW-18	23.88		12.96	10.92		12.60	11.28		12.50	11.38
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ System not operational during water level survey

² Groundwater elevation measurements same day prior to AFVR event.

³ Groundwater elevation measurements same day after AFVR event.

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	21.39		Not Measured			Not Measured			Not Measured	
MW-2	15.51		Dry			Dry			Dry	
MW-3	17.70		6.92	10.78		9.30	8.40		7.95	9.75
MW-4	22.19		10.21	11.98		9.82	12.37		10.96	11.23
MW-5	22.10		9.83	12.27		10.84	11.26		10.88	11.22
MW-6	15.55		10.01	5.54		9.82	5.73		11.16	4.39
MW-7	22.11		10.43	11.68		10.93	11.18		11.80	10.31
MW-8	16.27		11.05	5.22		11.60	4.67		12.40	3.87
MW-9 (Prod. Recovery Well)	23.14	11.59	13.12	10.02	11.49	13.99	9.15	12.28	15.18	7.96
MW-10	15.73		11.69			11.40	4.33		Not Measured	
MW-11	23.84		12.12	11.72		13.44	10.40		13.69	10.15
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	24.12		12.45	11.67		Dry			15.45	8.67
MW-14	15.73		10.71	5.02		11.01	4.72		10.70	5.03
MW-15	23.99		11.78	12.21		13.49	10.50		14.20	9.79
MW-16	22.19		10.76	11.43		12.10	10.09		11.63	10.56
MW-17	23.05		11.58	11.47		12.67	10.38		12.50	10.55
MW-18	23.88		12.34	11.54		13.15	10.73		13.64	10.24
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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	21.39		8.53			9.38			9.17	
MW-2	15.51		Dry			Dry			Dry	
MW-3	17.70		9.50	8.20		9.78	7.92		9.48	8.22
MW-4	22.19		9.58	12.61		10.11	12.08		9.79	12.40
MW-5	22.10		9.90	12.20		10.29	11.81		9.98	12.12
MW-6	15.55		9.95	5.60		10.32	5.23		10.07	5.48
MW-7	22.11		9.48	12.63		10.88	11.23		Not Measured	
MW-8	16.27		11.03	5.24		10.85	5.42		10.28	5.99
MW-9 (Prod. Recovery Well)	23.14		10.10	13.04		10.20	12.94		10.35	12.79
MW-10	15.73		9.90	5.83		Not Measured			11.45	4.28
MW-11	23.84		11.83	12.01		11.83	12.01		11.81	12.03
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	24.12		13.35	10.77		11.88	12.24		12.17	11.95
MW-14	15.73		9.95	5.78		9.48	6.25		10.01	5.72
MW-15	23.99		10.55	13.44		10.15	13.84		10.63	13.36
MW-16	22.19		10.89	11.30		10.89	11.30		10.65	11.54
MW-17	23.05		11.57	11.48		11.78	11.27		11.61	11.44
MW-18	23.88		12.50	11.38		12.69	11.19		12.33	11.55
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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	21.39		9.20			8.50			6.30	
MW-2	15.51		Not Measured			Not Measured			8.30	7.21
MW-3	17.70		9.25	8.45		8.68	9.02		7.80	9.90
MW-4	22.19		9.48	12.71		8.98	13.21		8.90	13.29
MW-5	22.10		9.99	12.11		9.50	12.60		9.10	13.00
MW-6	15.55		9.65	5.90		9.22	6.33		8.98	6.57
MW-7	22.11		Not Measured			10.94	11.17		9.59	12.52
MW-8	16.27		10.82	5.45		10.20	6.07		10.27	6.00
MW-9 (Prod. Recovery Well)	23.14		12.16	10.98		10.63	12.51		10.23	12.91
MW-10	15.73		13.85	1.88		13.18	2.55		12.91	2.82
MW-11	23.84		13.40	10.44		12.76	11.08		12.70	11.14
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	24.12		16.17	7.95		16.33	7.79		15.83	8.29
MW-14	15.73		10.28	5.45		9.87	5.86		9.90	5.83
MW-15	23.99		11.29	12.70		10.35	13.64		10.55	13.44
MW-16	22.19		10.78	11.41		10.46	11.73		10.17	12.02
MW-17	23.05		11.45	11.60		11.57	11.48		11.36	11.69
MW-18	23.88		12.71	11.17		12.41	11.47		12.30	11.58
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

ft = feet

toc = top of casing elevation

msl = mean sea level

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

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	21.39		7.83			Not Measured			Not Measured	
MW-2	15.51		8.43	7.08		7.06	8.45		7.10	8.41
MW-3	17.70		7.85	9.85		6.54	11.16		6.80	10.90
MW-4	22.19		8.40	13.79		8.18	14.01		8.16	14.03
MW-5	22.10		8.60	13.50		6.75	15.35		7.82	14.28
MW-6	15.55		8.70	6.85		7.80	7.75		8.06	7.49
MW-7	22.11		9.00	13.11		8.82	13.29		7.31	14.80
MW-8	16.27		9.23	7.04		9.31	6.96		9.00	7.27
MW-9 (Prod. Recovery Well)	23.14		9.28	13.86		9.45	13.69		8.74	14.40
MW-10	15.73		9.80	5.93		10.26	5.47		6.31	9.42
MW-11	23.84		10.70	13.14		10.75	13.09		8.80	15.04
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	24.12		11.14	12.98		11.22	12.90		7.86	16.26
MW-14	15.73		9.50	6.23		9.68	6.05		8.77	6.96
MW-15	23.99		10.14	13.85		10.30	13.69		9.65	14.34
MW-16	22.19		9.12	13.07		9.13	13.06		8.91	13.28
MW-17	23.05		10.33	12.72		10.20	12.85		9.77	13.28
MW-18	23.88		11.31	12.57		11.19	12.69		10.62	13.26
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ System not operational during water level survey

² Groundwater elevation measurements same day prior to AFVR event.

³ Groundwater elevation measurements same day after AFVR event.

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	21.39		Not Measured			Not Measured			Not Measured	
MW-2	15.51		5.59	9.92		5.72	9.79		Not Measured	
MW-3	17.70		5.46	12.24		6.05	11.65		8.04	9.66
MW-4	22.19		7.79	14.40		7.84	14.35		8.70	13.49
MW-5	22.10		6.86	15.24		6.30	15.80		8.71	13.39
MW-6	15.55		7.81	7.74		8.50	7.05		8.98	6.57
MW-7	22.11		6.65	15.46		4.85	17.26		9.20	12.91
MW-8	16.27		8.54	7.73		8.81	7.46		9.30	6.97
MW-9 (Prod. Recovery Well)	23.14		8.35	14.79		7.68	15.46		9.48	13.66
MW-10	15.73		5.45	10.28		3.50	12.23		10.45	5.28
MW-11	23.84		8.10	15.74		9.95	13.89		10.71	13.13
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	24.12		7.65	16.47		7.53	16.59		11.13	12.99
MW-14	15.73		8.79	6.94		8.94	6.79		9.60	6.13
MW-15	23.99		9.65	14.34		9.70	14.29		10.39	13.60
MW-16	22.19		7.78	14.41		4.04	18.15		9.35	12.84
MW-17	23.05		8.79	14.26		5.68	17.37		10.56	12.49
MW-18	23.88		9.62	14.26		7.86	16.02		11.45	12.43
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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	21.39		Not Measured			Not Measured			7.56	
MW-2	15.51		7.35	8.16		5.73	9.78		7.99	7.52
MW-3	17.70		7.10	10.60		6.07	11.63		7.51	10.19
MW-4	22.19		8.27	13.92		8.38	13.81		8.10	14.09
MW-5	22.10		8.04	14.06		8.02	14.08		8.25	13.85
MW-6	15.55		8.27	7.28		8.28	7.27		8.72	6.83
MW-7	22.11		8.81	13.30		9.87	12.24		8.68	13.43
MW-8	16.27		9.05	7.22		9.12	7.15		8.34	7.93
MW-9 (Prod. Recovery Well)	23.14		14.18	8.96		9.36	13.78		8.97	14.17
MW-10	15.73		9.82	5.91		9.74	5.99		9.23	6.50
MW-11	23.84		10.72	13.12		10.56	13.28		10.18	13.66
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	24.12		Dry			10.95	13.17		10.62	13.50
MW-14	15.73		9.72	6.01		9.60	6.13		9.02	6.71
MW-15	23.99		10.23	13.76		10.26	13.73		9.41	14.58
MW-16	22.19		9.47	12.72		8.54	13.65		8.87	13.32
MW-17	23.05		10.14	12.91		10.22	12.83		10.08	12.97
MW-18	23.88		11.04	12.84		11.08	12.80		10.96	12.92
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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	21.39		Not Measured			Not Measured			7.46	
MW-2	15.51		5.70	9.81		6.97	8.54		Not Measured	
MW-3	17.70		5.12	12.58		7.56	10.14		8.31	9.39
MW-4	22.19		5.75	16.44		8.10	14.09		8.36	13.83
MW-5	22.10		6.75	15.35		8.25	13.85		Not Measured	
MW-6	15.55		7.06	8.49		8.17	7.38		9.29	6.26
MW-7	22.11		8.56	13.55		8.14	13.97		9.28	12.83
MW-8	16.27		9.83	6.44		8.93	7.34		9.63	6.64
MW-9 (Prod. Recovery Well)	23.14		9.55	13.59		9.28	13.86		11.01	12.13
MW-10	15.73		10.27	5.46		9.75	5.98		10.51	5.22
MW-11	23.84		10.89	12.95		10.08	13.76		10.83	13.01
MW-12	22.03		Not Measured			Not Measured			Not Measured	
MW-13	24.12		11.42	12.70		10.47	13.65		11.38	12.74
MW-14	15.73		9.50	6.23		9.16	6.57		9.20	6.53
MW-15	23.99		10.10	13.89		9.70	14.29		9.66	14.33
MW-16	22.19		8.93	13.26		8.80	13.39		9.38	12.81
MW-17	23.05		10.23	12.82		9.94	13.11		10.51	12.54
MW-18	23.88		11.10	12.78		10.72	13.16		11.45	12.43
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

² Groundwater elevation measurements same day prior to AFVR event.

³ Groundwater elevation measurements same day after AFVR event.

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	21.39		Not Measured			Not Measured			Not Measured	
MW-2	15.51		Not Measured			5.92	9.59		Not Measured	
MW-3	17.70		8.13	9.57		6.50	11.20		5.29	12.41
MW-4	22.19		7.53	14.66		6.84	15.35		5.53	16.66
MW-5	22.10		Not Measured			7.37	14.73		6.34	15.76
MW-6	15.55		8.50	7.05		7.56	7.99		5.50	10.05
MW-7	22.11		Not Measured			4.76	17.35		7.04	15.07
MW-8	16.27		8.82	7.45		7.45	8.82		7.23	9.04
MW-9 (Prod. Recovery Well)	23.14		Not Measured			9.91	13.23		10.66	12.48
MW-10	15.73		Not Measured			4.82	10.91		8.61	7.12
MW-11	23.84		10.41	13.43		9.23	14.61		9.07	14.77
MW-12	22.03		6.43	15.60		7.19	14.84		9.21	12.82
MW-13	24.12		11.12	13.00		9.35	14.77		9.72	14.40
MW-14	15.73		8.93	6.80		7.64	8.09		8.98	6.75
MW-15	23.99		9.51	14.48		8.30	15.69		9.35	14.64
MW-16	22.19		10.16	12.03		8.30	13.89		10.63	11.56
MW-17	23.05		10.61	12.44		9.62	13.43		7.99	15.06
MW-18	23.88		10.44	13.44		10.68	13.20		8.67	15.21
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

² Groundwater elevation measurements same day prior to AFVR event.

³ Groundwater elevation measurements same day after AFVR event.

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	21.39		Not Measured			Not Measured			Not Measured	
MW-2	15.51		5.56	9.95		5.66	9.85		Not Measured	
MW-3	17.70		Not Measured			6.14	11.56		9.54	8.16
MW-4	22.19		4.46	17.73		6.40	15.79		9.22	12.97
MW-5	22.10		5.96	16.14		7.91	14.19		10.63	11.47
MW-6	15.55		4.43	11.12		9.63	5.92		9.39	6.16
MW-7	22.11		6.26	15.85		6.00	16.11		11.91	10.20
MW-8	16.27		6.65	9.62		8.64	7.63		11.12	5.15
MW-9 (Prod. Recovery Well)	23.14		6.54	16.60		8.56	14.58		12.63	10.51
MW-10	15.73		10.75	4.98		3.65	12.08		15.36	0.37
MW-11	23.84		8.29	15.55		7.91	15.93		14.18	9.66
MW-12	22.03		7.15	14.88		8.22	13.81		10.38	11.65
MW-13	24.12		7.69	16.43		5.30	18.82		16.40	7.72
MW-14	15.73		7.82	7.91		9.40	6.33		9.60	6.13
MW-15	23.99		9.32	14.67		9.58	14.41		9.80	14.19
MW-16	22.19		6.57	15.62		7.00	15.19		Not Measured	
MW-17	23.05		7.63	15.42		7.90	15.15		12.94	10.11
MW-18	23.88		8.64	15.24		9.24	14.64		13.61	10.27
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

² Groundwater elevation measurements same day prior to AFVR event.

³ Groundwater elevation measurements same day after AFVR event.

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	21.39		6.65			9.03			5.49	
MW-2	15.51		Not Measured			Not Measured			7.52	7.99
MW-3	17.70		7.82	9.88		9.34	8.36		6.94	10.76
MW-4	22.19		8.82	13.37		8.85	13.34		7.96	14.23
MW-5	22.10		8.06	14.04		9.89	12.21		7.09	15.01
MW-6	15.55		9.27	6.28		9.29	6.26		8.90	6.65
MW-7	22.11		10.25	11.86		10.25	11.86		6.38	15.73
MW-8	16.27		10.75	5.52		10.72	5.55		10.27	6.00
MW-9 (Prod. Recovery Well)	23.14		11.85	11.29		10.72	12.42		12.62	10.52
MW-10	15.73		13.26	2.47		14.48	1.25		8.15	7.58
MW-11	23.84		14.09	9.75		14.12	9.72		11.98	11.86
MW-12	22.03		6.70	15.33		9.54	12.49		6.48	15.55
MW-13	24.12		16.22	7.90		16.18	7.94		11.45	12.67
MW-14	15.73		9.01	6.72		9.47	6.26		8.46	7.27
MW-15	23.99		9.51	14.48		9.49	14.50		9.31	14.68
MW-16	22.19		6.81	15.38		10.76	11.43		6.03	16.16
MW-17	23.05		8.46	14.59		11.94	11.11		7.62	15.43
MW-18	23.88		11.71	12.17		12.78	11.10		10.23	13.65
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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	21.39		9.47			11.97			12.03	
MW-2	15.51		Not Measured			Not Measured			Not Measured	
MW-3	17.70		9.82	7.88		11.33	6.37		11.35	6.35
MW-4	22.19		9.20	12.99		8.81	13.38		9.56	12.63
MW-5	22.10		10.52	11.58		11.32	10.78		11.49	10.61
MW-6	15.55		8.99	6.56		8.96	6.59		8.94	6.61
MW-7	22.11		12.42	9.69		13.66	8.45		13.67	8.44
MW-8	16.27		10.62	5.65		12.74	3.53		10.74	5.53
MW-9 (Prod. Recovery Well)	23.14		10.94	12.20		14.24	8.90		11.26	11.88
MW-10	15.73		15.13	0.60		14.83	0.90		14.84	0.89
MW-11	23.84		13.81	10.03		12.06	11.78		12.96	10.88
MW-12	22.03		9.72	12.31		11.46	10.57		11.62	10.41
MW-13	24.12		15.64	8.48		13.26	10.86		13.00	11.12
MW-14	15.73		9.42	6.31		9.32	6.41		9.33	6.40
MW-15	23.99		9.49	14.50		9.46	14.53		9.43	14.56
MW-16	22.19		10.72	11.47		13.58	8.61		13.71	8.48
MW-17	23.05		10.81	12.24		14.21	8.84		14.33	8.72
MW-18	23.88		12.94	10.94		14.24	9.64		14.31	9.57
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

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	21.39		4.92			4.19			Not Measured	
MW-2	15.51		6.99	8.52		7.08	8.43		Well Dry	
MW-3	17.70		6.84	10.86		6.82	10.88		8.82	8.88
MW-4	22.19		6.59	15.60	Trace	6.60	15.59		8.68	13.51
MW-5	22.10		6.19	15.91		6.10	16.00		9.45	12.65
MW-6	15.55		7.81	7.74		7.89	7.66		8.61	6.94
MW-7	22.11		5.32	16.79		5.00	17.11		9.83	12.28
MW-8	16.27		8.36	7.91		8.32	7.95		9.18	7.09
MW-9 (Prod. Recovery Well)	23.14		10.29	12.85		7.95	15.19		9.81	13.33
MW-10	15.73		4.51	11.22		4.33	11.40		11.04	4.69
MW-11	23.84		7.62	16.22		7.58	16.26		11.60	12.24
MW-12	22.03		7.17	14.86		7.00	15.03		8.79	13.24
MW-13	24.12		6.29	17.83		6.19	17.93		12.27	11.85
MW-14	15.73		8.44	7.29		8.39	7.34		9.44	6.29
MW-15	23.99		9.21	14.78		9.16	14.83		9.86	14.13
MW-16	22.19		5.99	16.20		5.70	16.49		10.00	12.19
MW-17	23.05		6.94	16.11		6.64	16.41		9.65	13.40
MW-18	23.88		8.28	15.60		8.06	15.82		12.41	11.47
PW-1	22.80		Not Measured			Not Measured			Not Measured	

Notes:

¹ System not operational during water level survey

² Groundwater elevation measurements same day prior to AFVR event.

³ Groundwater elevation measurements same day after AFVR event.

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	21.39		Not Measured			Not Measured			Not Measured	
MW-2	15.51		8.52	6.99		7.95	7.56		8.20	7.31
MW-3	17.70		9.12	8.58		4.96	12.74		7.12	10.58
MW-4	22.19		8.40	13.79		6.30	15.89		7.69	14.50
MW-5	22.10		9.55	12.55		9.14	12.96		7.25	14.85
MW-6	15.55		8.70	6.85		7.60	7.95		9.21	6.34
MW-7	22.11		11.62	10.49		4.52	17.59		6.17	15.94
MW-8	16.27		10.65	5.62		10.20	6.07		9.81	6.46
MW-9 (Prod. Recovery Well)	23.14		11.35	11.79		10.16	12.98	8.78	8.80	14.34
MW-10	15.73		15.20	0.53		11.76	3.97		6.35	9.38
MW-11	23.84		15.98	7.86		12.65	11.19		11.12	12.72
MW-12	22.03		9.50	12.53		9.33	12.70		Not Measured	
MW-13	24.12		16.20	7.92		16.12	8.00		6.44	17.68
MW-14	15.73		9.58	6.15		9.52	6.21		8.51	7.22
MW-15	23.99		9.78	14.21		10.00	13.99		9.19	14.80
MW-16	22.19		10.92	11.27		9.90	12.29		7.33	14.86
MW-17	23.05		12.20	10.85		10.84	12.21		8.27	14.78
MW-18	23.88		12.92	10.96		11.95	11.93		10.75	13.13
PW-1	22.80		Not Measured			9.05	13.75		Not Measured	

Notes:

¹System not operational during water level survey

² Groundwater elevation measurements same day prior to AFVR event.

³ Groundwater elevation measurements same day after AFVR event.

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	21.39		6.91			8.20			Not Measured	
MW-2	15.51		7.87	7.64		8.51	7.00		7.43	8.08
MW-3	17.70		7.41	10.29		8.09	9.61		7.00	10.70
MW-4	22.19		7.58	14.61		7.89	14.30		7.79	14.40
MW-5	22.10		8.61	13.49		8.76	13.34		6.89	15.21
MW-6	15.55		8.55	7.00		8.89	6.66		8.29	7.26
MW-7	22.11		7.73	14.38		9.38	12.73		6.98	15.13
MW-8	16.27		8.57	7.70		9.30	6.97		9.29	6.98
MW-9 (Prod. Recovery Well)	23.14		8.78	14.36	9.23	9.32	13.91	9.13	9.15	14.01
MW-10	15.73		4.55	11.18		10.86	4.87		9.99	5.74
MW-11	23.84		8.39	15.45		12.42	11.42		13.09	10.75
MW-12	22.03		8.91	13.12		8.31	13.72		5.39	16.64
MW-13	24.12		7.50	16.62		16.21	7.91		15.39	8.73
MW-14	15.73		8.41	7.32		8.74	6.99		7.69	8.04
MW-15	23.99		9.09	14.90		9.31	14.68		8.71	15.28
MW-16	22.19		8.48	13.71		9.42	12.77		6.91	15.28
MW-17	23.05		9.41	13.64		10.68	12.37		9.61	13.44
MW-18	23.88		10.59	13.29		11.58	12.30		11.43	12.45
PW-1	22.80		7.59	15.21		9.06	13.74		Not Measured	

Notes:

¹ System not operational during water level survey

² Groundwater elevation measurements same day prior to AFVR event.

³ Groundwater elevation measurements same day after AFVR event.

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	21.39		Not Measured			4.30			8.63			3.94	
MW-2	15.51		7.70	7.81		5.95	9.56		7.91	7.60		6.30	9.21
MW-3	17.70		7.45	10.25		5.29	12.41		7.97	9.73		5.82	11.88
MW-4	22.19		8.17	14.02		5.99	16.20		7.84	14.35		5.99	16.20
MW-5	22.10		7.25	14.85		10.55	11.55		9.45	12.65		Not Measured	
MW-6	15.55		8.69	6.86		6.39	9.16		7.91	7.64		6.68	8.87
MW-7	22.11		7.35	14.76		7.30	14.81		10.75	11.36		7.05	15.06
MW-8	16.27		9.65	6.62		7.15	9.12		8.77	7.50		7.82	8.45
MW-9 (Prod. Recovery Well)	23.14	9.55	9.59	13.59	7.03	7.12	16.11		9.01	14.13	7.44	7.78	15.70
MW-10	15.73		10.31	5.42		Not Measured			12.06	3.67		Not Measured	
MW-11	23.84		13.54	10.30		7.75	16.09		10.82	13.02		9.34	14.50
MW-12	22.03		5.75	16.28		6.22	15.81		9.56	12.47		7.59	14.44
MW-13	24.12		15.53	8.59		6.84	17.28		10.74	13.38		8.93	15.19
MW-14	15.73		8.04	7.69		7.25	8.48		8.49	7.24		Not Measured	
MW-15	23.99		9.03	14.96		8.01	15.98		8.92	15.07		8.63	15.36
MW-16	22.19		7.30	14.89		6.35	15.84		10.63	11.56		8.72	13.47
MW-17	23.05		9.90	13.15		8.73	14.32		11.69	11.36		9.82	13.23
MW-18	23.88		11.83	12.05		10.01	13.87		12.63	11.25		10.92	12.96
PW-1	22.80		Not Measured			Not Measured			Not Measured			7.73	15.07

Notes:

- ¹ System not operational during water level survey
² Groundwater elevation measurements same day prior to AFVR event.
³ Groundwater elevation measurements same day after AFVR event.
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	21.39		Not Measured			6.14			4.18	
MW-2	15.51		7.38	8.13		7.84	7.67		7.55	7.96
MW-3	17.70		7.13	10.57		6.84	10.86		6.31	11.39
MW-4	22.19		7.57	14.62		7.07	15.12		7.85	14.34
MW-5	22.10		8.43	13.67		7.64	14.46		7.14	14.96
MW-6	15.55		8.11	7.44		7.44	8.11		7.06	8.49
MW-7	22.11		8.74	13.37		8.17	13.94		7.69	14.42
MW-8	16.27		8.56	7.71		7.89	8.38		7.78	8.49
MW-9 (Prod. Recovery Well)	23.14	8.90	9.28	14.24		Not Measured			Not Measured	
MW-10	15.73		9.54	6.19		9.35	6.38		9.48	6.25
MW-11	23.84		10.30	13.54		11.21	12.63		9.58	14.26
MW-12	22.03		8.01	14.02		7.41	14.62		7.06	14.97
MW-13	24.12		10.56	13.56		14.06	10.06		9.27	14.85
MW-14	15.73		Not Measured			8.37	7.36		8.14	7.59
MW-15	23.99		8.93	15.06		8.82	15.17		8.71	15.28
MW-16	22.19		9.12	13.07		8.53	13.66		6.75	15.44
MW-17	23.05		10.27	12.78		9.79	13.26		9.13	13.92
MW-18	23.88		11.35	12.53		10.91	12.97		10.46	13.42
PW-1	22.80		Not Measured			7.98	14.82		Not Measured	

Notes:

¹System not operational during water level survey

²Groundwater elevation measurements same day prior to AFVR event.

³Groundwater elevation measurements same day after AFVR event.

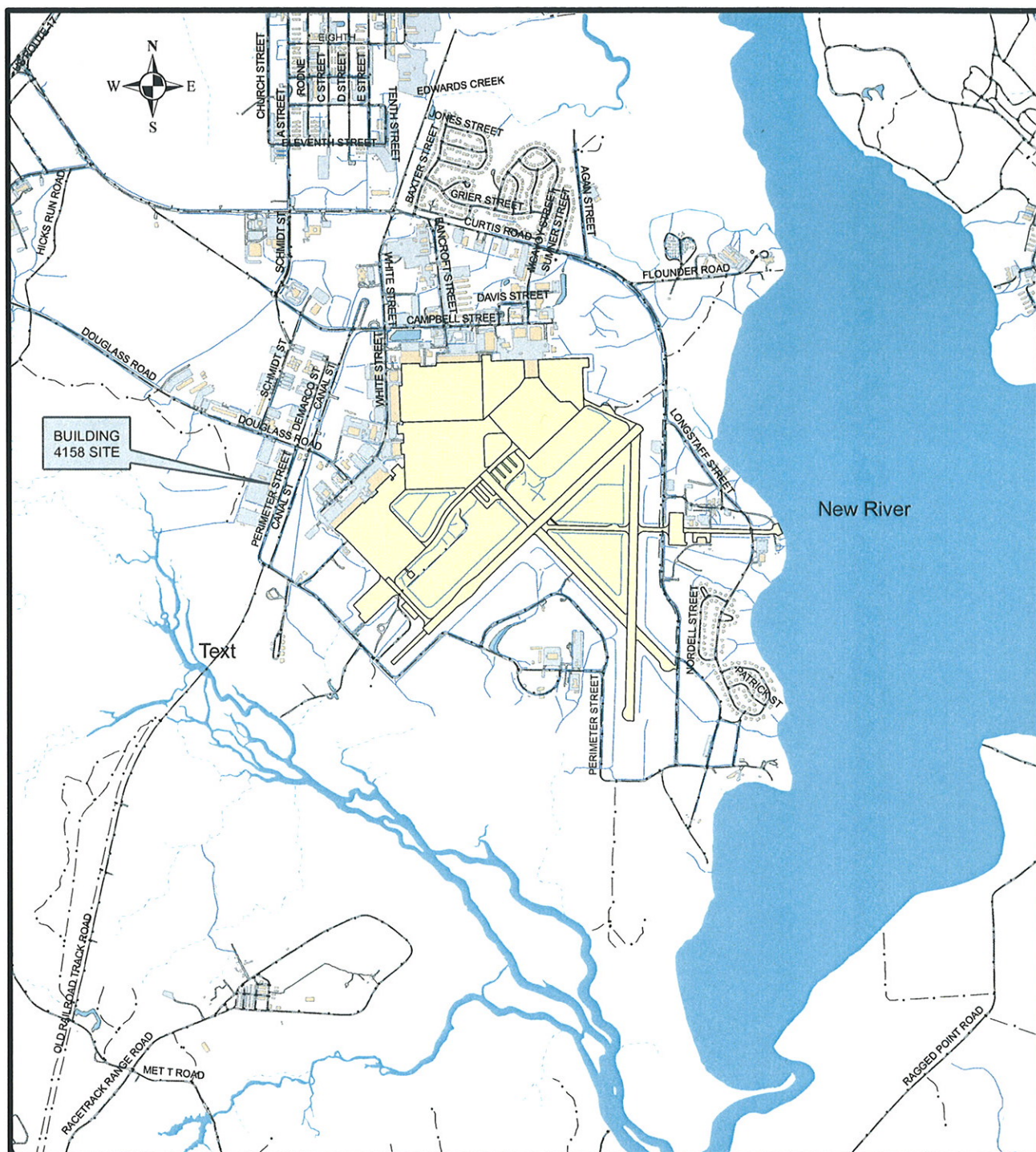
ft = feet

toc = top of casing elevation

msl = mean sea level

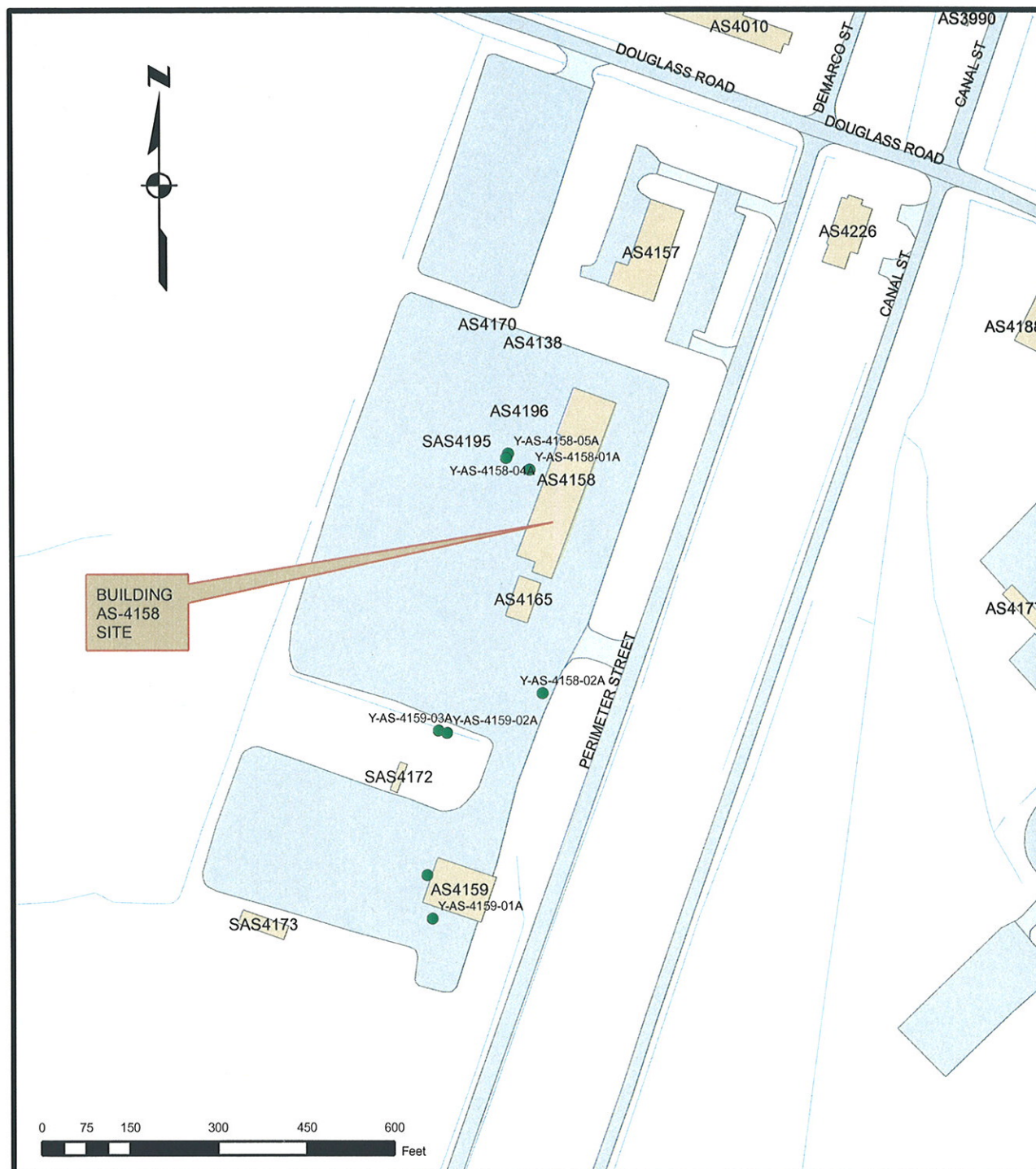
* Indicates that the depth to hydrocarbon product could not be measured

FIGURES



Shaw™ Shaw Environmental, Inc.

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



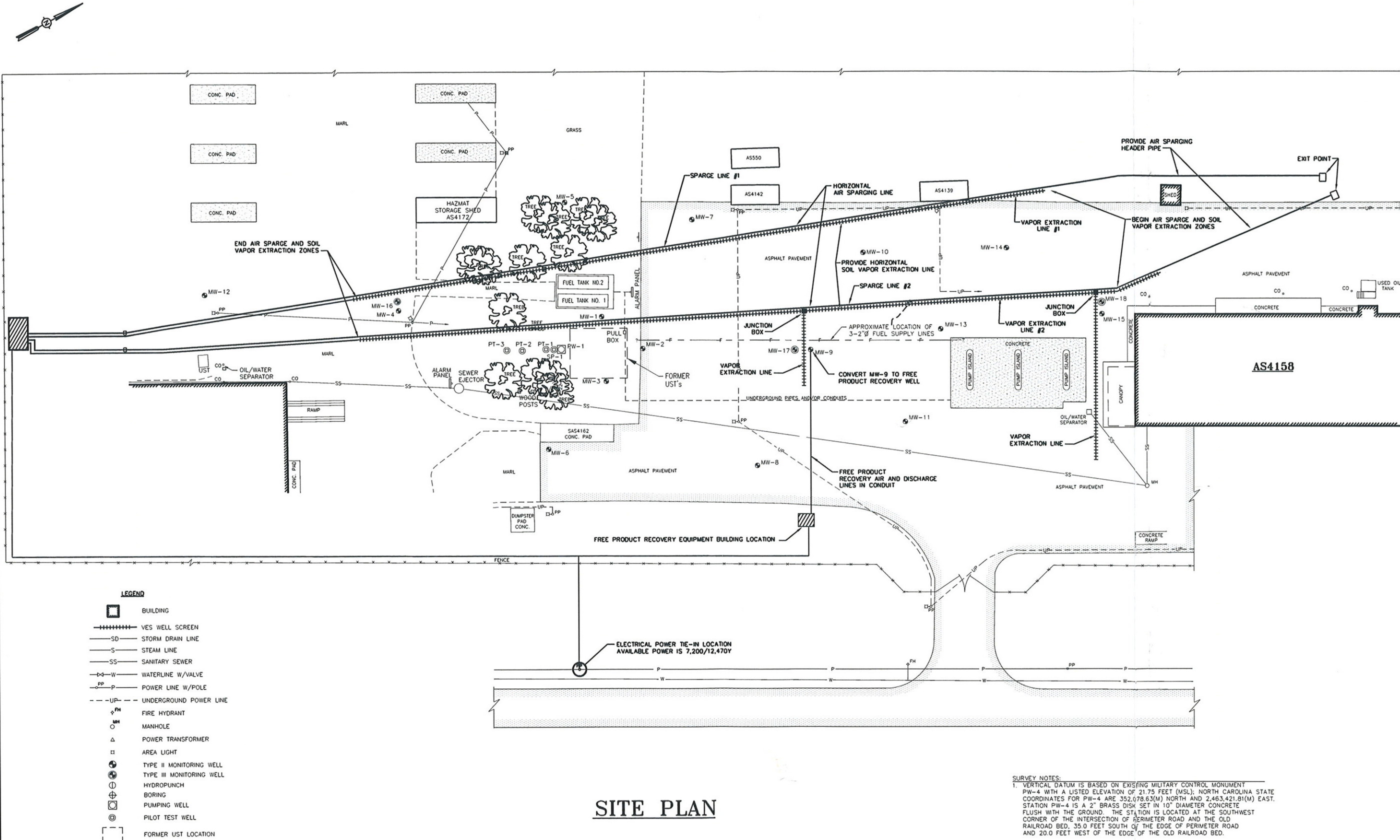
Legend

- storage_tank_point
- 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



SITE PLAN

- 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 | 4839.67 | 23.35 | Pk NAIL |
| 4. | 4634.21 | 4788.81 | 22.75 | #120 NAIL |
| 5. | 4504.84 | 4706.91 | 22.44 | #120 NAIL |



DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND	
NAVAL STATION		NORFOLK, VIRGINIA	
ATLANTIC DIVISION		ANNUAL MONITORING REPORT	
		BUILDING AS4158	
		CAMP LEJEUNE, 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

REVISIONS

REV

DATE

BY

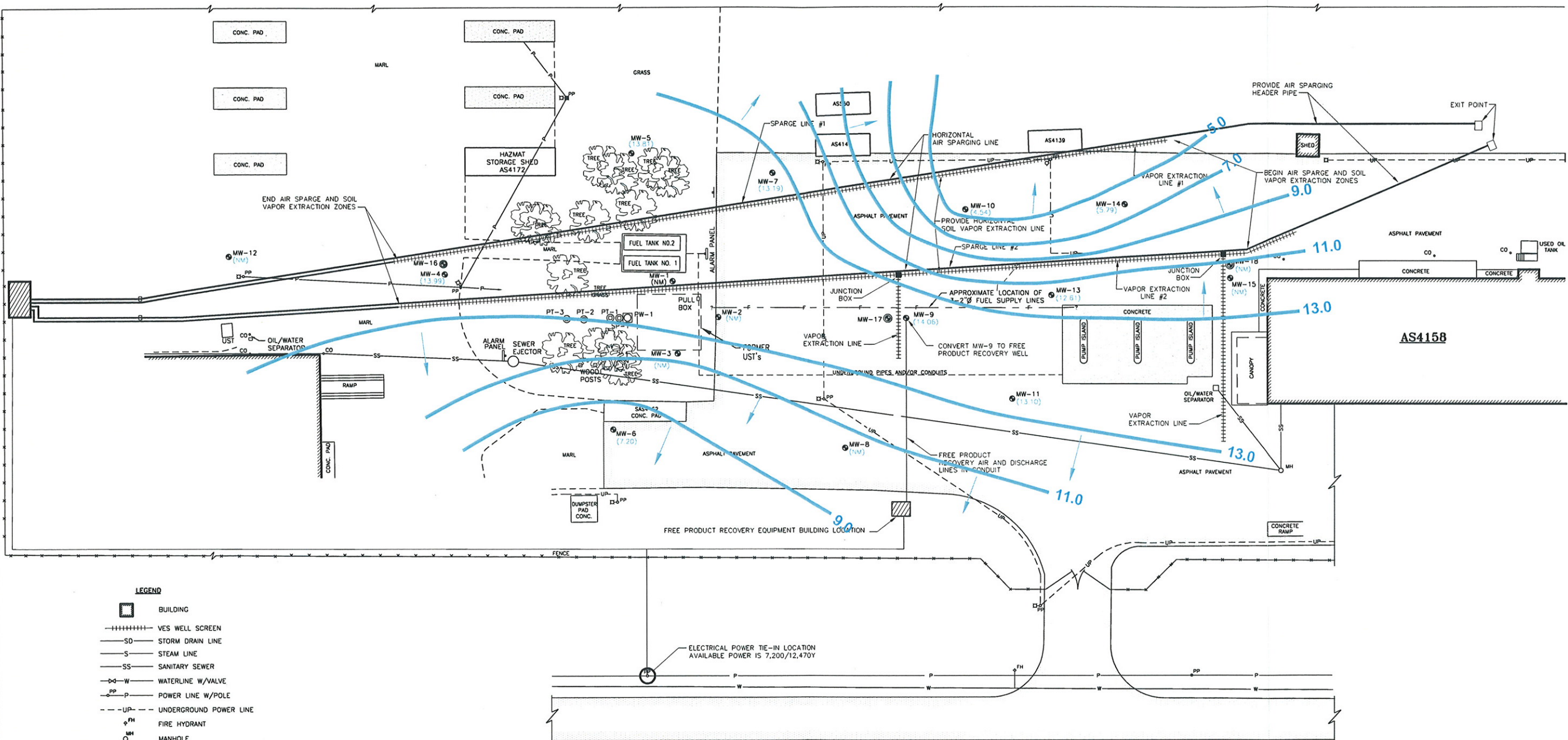
CHK'D

APR

YD

DESCRIPTION/ISSUE

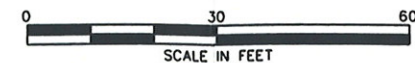
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Xref:
Plotted By: john.lange



GROUNDWATER ELEVATIONS

JANUARY 13, 2006

- 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 | 4839.67 | 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	ATLANTIC DIVISION	NORFOLK, VIRGINIA
ANNUAL MONITORING REPORT			
BUILDING AS4158			
CAMP LEJEUNE, NORTH CAROLINA			
GROUNDWATER ELEVATIONS CONTOUR MAP			
TYPE II WELLS - JANUARY 13, 2006			
SCALE:	AS SHOWN	SIZE:	
DELIVERY ORDER NO.	0061	CONSTR. CONTRACT NO.	N62470-02-D-3260
NAVFAC DRAWING NO.			
SHEET I.D.			
2-1			



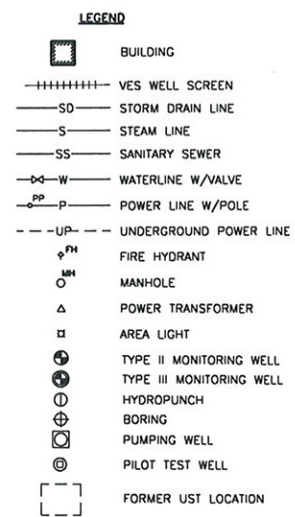
PROJECT NO. 845823

CHECKED BY RBK

APPROVED BY JEL

REVISIONS

DESCRIPTION/ISSUE



JUNE 12, 2006

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 FLATION WITH THE STATION IS LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION OF PERIMETER ROAD AND THE OLD RAILROAD BED, 33.0 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	4839.67	22.44	Pk NAIL
4.	4634.21	4788.81	22.75	#120 NAIL
5.	4504.84	4706.91	22.44	#120 NAIL



SHEET I.D.		2-2	
NAVFAC DRAWING NO.			
CONSTR. CONTRACT NO.		N62470-02-D-3260	
DELIVERY ORDER NO.		0061	
SCALE:		AS SHOWN	
NAVAL STATION		ATLANTIC DIVISION	
NAVAL FACILITIES ENGINEERING COMMAND		NORFOLK, VIRGINIA	
ANNUAL MONITORING REPORT		PROJECT NO. 845823	
BUILDING AS4158		CHECKED BY	
CAMP LEJUNE, NORTH CAROLINA		RBK	
GROUNDWATER ELEVATIONS CONTOUR MAP		DESIGNED BY	
TYPE II WELLS - JUNE 12, 2006		RBK	
		DRAWN BY	
		JEL	
		APPROVED BY	
		REV	
		DATE	
		BY	
		CHK'D	
		APPROV'D	
		DESCRIPTION/ISSUE	
		REVISONS	

APPENDIX A

GROUNDWATER ELEVATION FIELD DATA

1-13-06

AS-4158 Monthly Well Gauging

Well#	DTW	DTP	Total
MW-4	8.2	0	0
MW-5	8.29	0	0
MW-6	8.35	0	0
MW-7	8.92	0	0
MW-9	9.08	0	0
MW-10	11.19	0	0
MW-11	10.74	0	0
MW-13	11.51	0	0
MW-14	9.94	0	0
MW-16	8.87	0	0

Date: 3-21-06

AS-4158 Monthly Well Gauging

Well#	DTW	DTP	Total
MW-4	8.32	0	0
MW-5	8.53	0	0
MW-6	8.77	0	0
MW-7	8.75	0	0
MW-9	8.94	0	0
MW-10	9.63	0	0
MW-11	10.40	0	0
MW-13	10.67	0	0
MW-14	9.46	0	0
MW-16	8.77	0	0

Date: 4-10-06

AS-4158 Monthly Well Gauging

Well#	DTW	DTP	Total
MW-4	8.25	0	0
MW-5	8.38	0	0
MW-6	8.74	0	0
MW-7	8.15	0	0
MW-9	9.27	0	0
MW-10	10.47	0	0
MW-11	10.87	0	0
MW-13	11.19	0	0
MW-14	9.70	0	0
MW-16	9.26	0	0

Date: 5-9-06

AS-4158 Monthly Well Gauging

Well#	DTW	DTP	Total
MW-4	7.94	0	0
MW-5	8.23	0	0
MW-6	7.94	0	0
MW-7	8.95	0	0
MW-9	9.26	0	0
MW-10	10.41	0	0
MW-11	10.77	0	0
MW-13	11.10	0	0
MW-14	9.69	0	0
MW-16	9.18	0	0

Date: 6-12-06

AS-4158 Monthly Well Gauging

Well#	DTW	DTP	Total
MW-4	7.06	0	0
MW-5	8.76	0	0
MW-6	7.94	0	0
MW-7	9.32	0	0
MW-9	9.45	0	0
MW-10	10.72	0	0
MW-11	11.05	0	0
MW-13	11.38	0	0
MW-14	9.81	0	0
MW-16	9.64	0	0

APPENDIX B

PREVIOUS PROGRAM GROUNDWATER LABORATORY DATA

Table 3-1 (Continued)
 Summary of Detected Concentrations
 Groundwater Monitoring Well Samples
 Building AS-4158
 Marine Corps Air Station
 New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location Sample ID Sample Date	MW-1					
			USTAS4158-MW01-03A	USTAS4158-MW01-02B	USTAS4158-MW01-01D	USTAS4158-MW01-01C	USTAS4158-MW01-01B	USTAS4158-MW01-00D
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L			1/14/2003 *#	4/15/2002 *#	10/16/2001 #	7/16/2001 *	4/17/2001 *#	10/18/2000 *
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
 Detected concentrations are indicated in boldface type.
 Detected concentrations above the regulatory limits are indicated by shading.
 NA indicates that the sample was not analyzed for the constituent.
 BQL = Below Laboratory Quantitation Limit
 * verified with laboratory data package
 # verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location Sample ID Sample Date	MW-1					
			USTAS4158-MW01-00C	USTAS4158-MW01-00A	USTAS4158-MW01-99C	USTAS4158-MW01-99B	USTAS4158-MW01-98D	USTAS4158-MW01-98C1
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>			7/26/2000	1/12/2000 *#	7/30/1999 #	4/19/1999 #	10/21/1998	7/23/1998
Benzene	1		BQL	BQL	BQL	BQL	6	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.

Detected concentrations above the regulatory limits are indicated by shading.

NA indicates that the sample was not analyzed for the constituent.

BQL = Below Laboratory Quantitation Limit

* verified with laboratory data package

verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location Sample ID Sample Date	MW-1		MW-2			
			USTAS4158-MW01-98B2	USTAS4158-MW01-98B1	USTAS4158-MW02-01C	USTAS4158-MW02-01B	USTAS4158-MW02-00D	USTAS4158-MW02-00C
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L								
		5/15/1998	3/27/1998	7/16/2001	4/17/2001	10/18/2000 *	7/27/2000	
Benzene	1	1	BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28	BQL	BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location Sample ID Sample Date	MW-2					MW-3
			USTAS4158-MW02-00B	USTAS4158-MW02-99B	USTAS4158-MW02-99A	USTAS4158-MW02-98B2	USTAS4158-MW02-98B1	USTAS4158-MW03-03A
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L			4/25/2000 *#	5/7/1999 *#	1/25/1999 *#	5/15/1998	3/27/1998	1/14/2003 *#
Benzene	1		BQL	BQL	BQL	23	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	320	240	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	140	140	BQL
Total Xylenes	530		BQL	BQL	BQL	1,100	1,020	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	NA	18	14	BQL
Acenaphthene	80		BQL	BQL	NA	BQL	BQL	BQL
Fluorene	280		BQL	BQL	NA	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	NA	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	NA	BQL	BQL	BQL
Pyrene	210		BQL	BQL	NA	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	NA	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	NA	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location Sample ID Sample Date	MW-3					
			USTAS4158-MW03-02D	USTAS4158-MW03-02C	USTAS4158-MW03-02B	USTAS4158-MW03-02A	USTAS4158-MW03-01D	USTAS4158-MW03-01C
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L			10/22/2002 *#	7/15/2002 *#	4/15/2002 *#	1/15/2002 *#	10/16/2001 #	7/16/2001 *
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location Sample ID Sample Date	MW-3					
			USTAS4158-MW03-01B	USTAS4158-MW03-01A	USTAS4158-MW03-00D	USTAS4158-MW03-00C	USTAS4158-MW03-00B	USTAS4158-MW03-00A
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>			4/17/2001 *#	1/4/2001 *#	10/18/2000 *	7/27/2000	4/25/2000 *#	1/12/2000 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	13	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location	MW-3					
		Sample ID	USTAS4158-MW03-99D	USTAS4158-MW03-99C	USTAS4158-MW03-99B	USTAS4158-MW03-99A	USTAS4158-MW03-98D	USTAS4158-MW03-98C1
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>		Sample Date	10/20/1999 *#	7/14/1999 *#	4/19/1999 *#	1/25/1999 *#	10/21/1998	7/23/1998
Benzene	1		BQL	BQL	BQL	1	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location Sample ID	MW-3			MW-4		
		Sample Date	USTAS4158-MW03-98B3	USTAS4158-MW03-98B2	USTAS4158-MW03-98B1	USTAS4158-MW04-03A	USTAS4158-MW04-02D	USTAS4158-MW04-02C
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>								
Benzene	1	6/24/1998	BQL	BQL	BQL	1/14/2003 *#	10/23/2002 *#	7/15/2002 *#
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location	MW-4					
		Sample ID	USTAS4158-MW04-02B	USTAS4158-MW04-02A	USTAS4158-MW04-01D	USTAS4158-MW04-01C	USTAS4158-MW04-01B	USTAS4158-MW04-01A
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L		Sample Date	4/15/2002 *#	1/15/2002 *#	10/15/2001 #	7/16/2001 *	4/17/2001 *#	1/4/2001 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.
 Detected concentrations above the regulatory limits are indicated by shading.
 NA indicates that the sample was not analyzed for the constituent.
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 * verified with laboratory data package
 # verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location	MW-4					
		Sample ID	USTAS4158-MW04-00D	USTAS4158-MW04-00C	USTAS4158-MW04-00B	USTAS4158-MW04-00A	USTAS4158-MW04-99D	USTAS4158-MW04-99C
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L		Sample Date	10/18/2000 *	7/26/2000 *	4/24/2000 *#	1/12/2000 *#	10/20/1999 *#	7/14/1999 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000	2	BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location	MW-4					
		Sample ID	USTAS4158-MW04-99B	USTAS4158-MW04-99A	USTAS4158-MW04-98D	USTAS4158-MW04-98C1	USTAS4158-MW04-98B3	USTAS4158-MW04-98B2
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L		Sample Date	4/19/1999 *#	1/25/1999 *#	10/21/1998	7/23/1998	6/24/1998	5/15/1998
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-4		MW-5			
		Sample ID	USTAS4158-MW04-98B1	USTAS4158-MW05-03A	USTAS4158-MW05-02C	USTAS4158-MW05-02C	USTAS4158-MW05-02B	USTAS4158-MW05-02A
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	3/27/1998	1/14/2003 *#	10/22/2002 *#	7/15/2002 *#	4/15/2002 *#	1/15/2002 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.

Detected concentrations above the regulatory limits are indicated by shading.

NA indicates that the sample was not analyzed for the constituent.

BQL = Below Laboratory Quantitation Limit

* verified with laboratory data package

verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location	MW-5					
		Sample ID	USTAS4158-MW05-01D	USTAS4158-MW05-01C	USTAS4158-MW05-01B	USTAS4158-MW05-01A	USTAS4158-MW05-00D	USTAS4158-MW05-00C
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>		Sample Date	10/16/2001 #	7/16/2001 *	4/17/2001 **	1/4/2001 **	10/18/2000 *	7/27/2000
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location	MW-5					
		Sample ID	USTAS4158-MW05-00B	USTAS4158-MW05-00A	USTAS4158-MW05-99D	USTAS4158-MW05-99C	USTAS4158-MW05-99B	USTAS4158-MW05-99A
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L		Sample Date	4/24/2000 *#	3/23/2000 *#	10/20/1999 *#	7/14/1999 *#	4/19/1999 *#	1/25/1999 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-7					
		Sample ID	USTAS4158-MW05-98D	USTAS4158-MW07-03A	USTAS4158-MW07-02D	USTAS4158-MW07-02C	USTAS4158-MW07-02B	USTAS4158-MW07-02A
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	10/21/1998	1/14/2003 *#	10/22/2002 *#	7/15/2002 *#	4/15/2002 *#	1/15/2002 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location	MW-7					
		Sample ID	USTAS4158-MW07-01C	USTAS4158-MW07-01C	USTAS4158-MW07-01A	USTAS4158-MW07-00D	USTAS4158-MW07-00C	USTAS4158-MW07-00B
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L		Sample Date	7/16/2001 *	4/17/2001 **	1/4/2001 **	10/18/2000 *	7/27/2000	4/24/2000 **
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
 Summary of Detected Concentrations
 Groundwater Monitoring Well Samples
 Building AS-4158
 Marine Corps Air Station
 New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location Sample ID Sample Date	MW-7					
			USTAS4158-MW07-00A	USTAS4158-MW07-99D	USTAS4158-MW07-99C	USTAS4158-MW07-99B	USTAS4158-MW07-99A	USTAS4158-MW07-98D
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L			1/12/2000 *#	10/20/1999 *#	7/14/1999 *#	4/19/1999 *#	1/25/1999 *#	10/21/1998
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
 Detected concentrations are indicated in boldface type.
 Detected concentrations above the regulatory limits are indicated by shading.
 NA indicates that the sample was not analyzed for the constituent.
 BQL = Below Laboratory Quantitation Limit
 * verified with laboratory data package
 # verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location	MW-7				MW-8	
		Sample ID	USTAS4158-MW07-98C1	USTAS4158-MW07-98B3	USTAS4158-MW07-98B2	USTAS4158-MW07-98B1	USTAS4158-MW08-03A	USTAS4158-MW08-02D
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L		Sample Date	7/23/1998	6/24/1998	5/15/1998	3/27/1998	1/14/2003 *#	10/23/2002 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location Sample ID Sample Date	MW-8					
			USTAS4158-MW08-02C	USTAS4158-MW08-02B	USTAS4158-MW08-02A	USTAS4158-MW08-01D	USTAS4158-MW08-01C	USTAS4158-MW08-01B
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>			7/15/2002 *#	4/15/2002 *#	1/15/2002 *#	10/15/2001 #	7/16/2001 *	4/17/2001 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location	MW-8					
		Sample ID	USTAS4158-MW08-01A	USTAS4158-MW08-00D	USTAS4158-MW08-00C	USTAS4158-MW08-00B	USTAS4158-MW08-00A	USTAS4158-MW08-99D
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>		Sample Date	1/4/2001 *#	10/18/2000 *	7/26/2000 *	4/25/2000 *#	1/12/2000 *#	10/20/1999 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location	MW-8					
		Sample ID	USTAS4158-MW08-99C	USTAS4158-MW08-99B	USTAS4158-MW08-99A	USTAS4158-MW08-98D	USTAS4158-MW08-98C1	USTAS4158-MW08-98B3
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L		Sample Date	7/14/1999 *#	4/19/1999 *#	1/25/1999 *#	10/21/1998	7/23/1998	6/24/1998
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR Regulatory Limit	Sample Location Sample ID Sample Date	MW-8	
			USTAS4158-MW08-98B2	USTAS4158-MW08-98B1
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>			5/15/1998	3/27/1998
Benzene	1		BQL	BQL
Ethylbenzene	29		BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL
Toluene	1000		BQL	BQL
Total Xylenes	530		BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>				
Naphthalene	21		BQL	BQL
Acenaphthene	80		BQL	BQL
Fluorene	280		BQL	BQL
Phenanthrene	210		BQL	BQL
Anthracene	2100		BQL	BQL
Pyrene	210		BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL
2-Methylnaphthalene	28		BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-9					
		Sample ID	USTAS4158-MW09-03A	USTAS4158-MW09-02D	USTAS4158-MW09-01D	USTAS4158-MW09-01C	USTAS4158-MW09-01B	USTAS4158-MW09-01A
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	1/14/2003 **	10/23/2002 **	10/15/2001 #	7/16/2001 *	4/17/2001 **	1/4/2001 **
Benzene	1		69	19	BQL	52	180	160
Ethylbenzene	29		43	10	BQL	1	13	10
Methyl-tert-butyl ether (MTBE)	200		13	17	2	6	BQL	BQL
Toluene	1000		66	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		400	156	BQL	2	24	32
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		1500	860	BQL	BQL	28	54
Acenaphthene	80		300	210	BQL	BQL	17	BQL
Fluorene	280		BQL	400	BQL	BQL	BQL	BQL
Phenanthrene	210		1300	850	BQL	BQL	BQL	23
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		200	BQL	BQL	BQL	BQL	14
1-Methylnaphthalene	Detection Limit		3000	1600	BQL	BQL	13	63
2-Methylnaphthalene	28		3800	2600	BQL	BQL	13	35

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location Sample ID	MW-9					
			USTAS4158-MW09-00D	USTAS4158-MW09-00C	USTAS4158-MW09-00B	USTAS4158-MW09-00A	USTAS4158-MW09-99D	USTAS4158-MW09-99C
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	10/18/2000 *	7/26/2000 *	4/24/2000 **	1/12/2000 **	10/20/1999 **	7/14/1999 **
Benzene	1		100	89	66	17	6	5
Ethylbenzene	29		BQL	BQL	BQL	1	BQL	1
Methyl-tert-butyl ether (MTBE)	200		11	16	23	23	13	28
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	9	8	55
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	13	16	68
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	17
Fluorene	280		BQL	BQL	BQL	20	22	89
Phenanthrene	210		11	BQL	17	20	29	160
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	20
Pyrene	210		13	30	BQL	BQL	BQL	22
1-Methylnaphthalene	Detection Limit		BQL	BQL	12	51	62	240
2-Methylnaphthalene	28		11	BQL	BQL	23	31	360

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
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* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-9		MW-10			
		Sample ID	USTAS4158-MW09-99B	USTAS4158-MW09-99B	USTAS4158-MW10-03A	USTAS4158-MW10-02D	USTAS4158-MW10-02C	USTAS4158-MW10-02B
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	5/7/1999 *#	2/16/1999 *#	1/14/2003 *#	10/23/2002 *#	7/15/2002 *#	4/15/2002 *#
Benzene	1		13	110	BQL	BQL	BQL	BQL
Ethylbenzene	29		61	86	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		23	26	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		321	470	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		56	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		26	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		37	11,000	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	11,000	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		120	17,000	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		120	90,000	BQL	BQL	BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-10					
		Sample ID	USTAS4158-MW10-02A	USTAS4158-MW10-01D	USTAS4158-MW10-01C	USTAS4158-MW10-01B	USTAS4158-MW10-01A	USTAS4158-MW10-00D
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	1/15/2002 *#	10/15/2001 #	7/16/2001 *	4/17/2001 *#	1/4/2001 *#	10/18/2000 *
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-10					
		Sample ID	USTAS4158-MW10-00C	USTAS4158-MW10-00B	USTAS4158-MW10-00A	USTAS4158-MW10-99D	USTAS4158-MW10-99B	USTAS4158-MW10-99A
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	7/26/2000 *	4/25/2000 *#	1/12/2000 *#	10/20/1999 *#	4/19/1999 *#	1/25/1999 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-10					MW-11
		Sample ID	USTAS4158-MW10-98D	USTAS4158-MW10-98C1	USTAS4158-MW10-98B3	USTAS4158-MW10-98B2	USTAS4158-MW10-98B1	USTAS4158-MW11-03A
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	10/21/1998	7/23/1998	6/24/1998	5/15/1998	3/27/1998	1/14/2003 *#
Benzene	1		BQL	BQL	BQL	BQL	230	2
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	9
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	26	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	12	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	14	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-11					
		Sample ID	USTAS4158-MW11-02D	USTAS4158-MW11-02	USTAS4158-MW11-02B	USTAS4158-MW11-02A	USTAS4158-MW11-01D	USTAS4158-MW11-01C
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	10/23/2002 *#	7/15/2002 *#	4/15/2002 *#	1/15/2002 *#	10/15/2001 #	7/16/2001 *
Benzene	1		3	3	BQL	2	1	3
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		7	11	7	13	12	8
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-11					
		Sample ID	USTAS4158-MW11-01B	USTAS4158-MW11-01A	USTAS4158-MW11-00D	USTAS4158-MW11-00C	USTAS4158-MW11-00B	USTAS4158-MW11-00A
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	4/17/2001 *#	1/4/2001 *#	10/18/2000 *	7/26/2000 *	4/25/2000 *#	1/12/2000 *#
Benzene	1		2	10	16	15	8	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		5	4	7	9	9	7
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location Sample ID	MW-11					
			USTAS4158-MW11-99D	USTAS4158-MW11-99C	USTAS4158-MW11-99B	USTAS4158-MW11-99A	USTAS4158-MW11-98D	USTAS4158-MW11-98C1
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	10/20/1999 *#	7/14/1999 *#	4/19/1999 *#	1/25/1999 *#	10/21/1998	7/23/1998
Benzene	1		2	16	5	7	20	62
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		6	13	8	12	40	10
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-11			MW-13		
		Sample ID	USTAS4158-MW11-98B3	USTAS4158-MW11-98B2	USTAS4158-MW11-98B1	USTAS4158-MW13-03A	USTAS4158-MW13-02D	USTAS4158-MW13-02C
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	6/24/1998	5/15/1998	3/27/1998	1/14/2003 *#	10/23/2002 *#	7/15/2002 *#
Benzene	1		250	20	90	BQL	BQL	22
Ethylbenzene	29		BQL	BQL	4	BQL	BQL	3
Methyl-tert-butyl ether (MTBE)	200		26	7	130	26	17	67
Toluene	1000		BQL	BQL	24	BQL	BQL	2
Total Xylenes	530		BQL	BQL	56	BQL	BQL	6
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-13					
		Sample ID	USTAS4158-MW13-02B	USTAS4158-MW13-02A	USTAS4158-MW13-01D	USTAS4158-MW13-01C	USTAS4158-MW13-01B	USTAS4158-MW13-01A
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	4/15/2002 *#	1/15/2002 *#	10/15/2001 #	7/16/2001 *	4/17/2001 *#	1/4/2001 *#
Benzene	1		3	3	BQL	5	35	150
Ethylbenzene	29		BQL	BQL	BQL	BQL	3	43
Methyl-tert-butyl ether (MTBE)	200		34	15	42	62	52	35
Toluene	1000		BQL	BQL	BQL	BQL	7	67
Total Xylenes	530		BQL	BQL	BQL	BQL	13	154
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	11
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location Sample ID	MW-13					
			USTAS4158-MW13-00D	USTAS4158-MW13-00C	USTAS4158-MW13-00B	USTAS4158-MW13-00A	USTAS4158-MW13-99D	USTAS4158-MW13-99B
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	10/18/2000 *	7/26/2000 *	4/25/2000 *#	1/12/2000 *#	10/20/1999 *#	4/19/1999 *#
Benzene	1		300	89	180	BQL	6	38
Ethylbenzene	29		550	BQL	34	BQL	1	3
Methyl-tert-butyl ether (MTBE)	200		BQL	55	69	17	16	18
Toluene	1000		610	26	190	BQL	BQL	7
Total Xylenes	530		1280	19	290	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		90	BQL	13	BQL	BQL	36
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		14	BQL	BQL	BQL	BQL	22
2-Methylnaphthalene	28		13	BQL	BQL	BQL	BQL	32

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
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BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-13				
		Sample ID	USTAS4158-MW13-99A	USTAS4158-MW13-98C1	USTAS4158-MW13-98B3	USTAS4158-MW13-98B2	USTAS4158-MW13-98B1
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	2/16/1999 *#	7/23/1998	6/24/1998	5/15/1998	3/27/1998
Benzene	1		1	44	1,200	140	1,700
Ethylbenzene	29		BQL	7	440	19	220
Methyl-tert-butyl ether (MTBE)	200		7	56	150	BQL	BQL
Toluene	1000		BQL	BQL	1,300	BQL	270
Total Xylenes	530		BQL	10	2,020	BQL	580
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>							
Naphthalene	21		BQL	BQL	64	BQL	47
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	10	BQL	11

Notes:

Detected concentrations are indicated in boldface type.

Detected concentrations above the regulatory limits are indicated by shading.

NA indicates that the sample was not analyzed for the constituent.

BQL = Below Laboratory Quantitation Limit

* verified with laboratory data package

verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-14					
		Sample ID	USTAS4158-MW14-03A	USTAS4158-MW14-02D	USTAS4158-MW14-02C	USTAS4158-MW14-02B	USTAS4158-MW14-02A	USTAS4158-MW14-01D
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	1/14/2003 *#	10/23/2002 *#	7/15/2002 *#	4/15/2002 *#	1/15/2002 *#	10/15/2001 #
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-14					
		Sample ID	USTAS4158-MW14-01C	USTAS4158-MW14-01B	USTAS4158-MW14-01A	USTAS4158-MW14-00D	USTAS4158-MW14-00C	USTAS4158-MW14-00B
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	7/16/2001 *	4/17/2001 **	1/4/2001 **	10/18/2000 *	7/26/2000 *	4/25/2000 **
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-14					
		Sample ID	USTAS4158-MW14-00A	USTAS4158-MW14-99D	USTAS4158-MW14-99C	USTAS4158-MW14-99B	USTAS4158-MW14-99A	USTAS4158-MW14-98D
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	1/12/2000 *#	10/20/1999 *#	7/14/1999 *#	4/19/1999 *#	1/25/1999 *#	10/21/1998
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-14				MW-15	
		Sample ID	USTAS4158-MW14-98C1	USTAS4158-MW14-98B3	USTAS4158-MW14-98B2	USTAS4158-MW14-98B1	USTAS4158-MW15-03A	USTAS4158-MW15-02D
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	7/23/1998	6/24/1998	5/15/1998	3/27/1998	1/14/2003 **	10/23/2002 **
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.

Detected concentrations above the regulatory limits are indicated by shading.

NA indicates that the sample was not analyzed for the constituent.

BQL = Below Laboratory Quantitation Limit

* verified with laboratory data package

verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-15					
		Sample ID	USTAS4158-MW15-02C	USTAS4158-MW15-02B	USTAS4158-MW15-02A	USTAS4158-MW15-01D	USTAS4158-MW15-01C	USTAS4158-MW15-01B
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	7/15/2002 *#	4/15/2002 *#	1/15/2002 *#	10/15/2001 #	7/16/2001 *	4/17/2001 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	2
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	1
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	6
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-15					
		Sample ID	USTAS4158-MW15-01A	USTAS4158-MW15-00D	USTAS4158-MW15-00C	USTAS4158-MW15-00B	USTAS4158-MW15-00A	USTAS4158-MW15-99D
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	1/4/2001 *#	10/18/2000 *	7/26/2000 *	4/25/2000 *#	1/12/2000 *#	10/20/1999 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-15					
		Sample ID	USTAS4158-MW15-99C	USTAS4158-MW15-99B	USTAS4158-MW15-99A	USTAS4158-MW15-98D	USTAS4158-MW15-98C1	USTAS4158-MW15-98B3
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	7/14/1999 **	4/19/1999 **	1/25/1999 **	10/21/1998	7/23/1998	6/24/1998
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
 Detected concentrations are indicated in boldface type.
 Detected concentrations above the regulatory limits are indicated by shading.
 NA indicates that the sample was not analyzed for the constituent.
 BQL = Below Laboratory Quantitation Limit
 * verified with laboratory data package
 # verified with electronic data deliverables

Table 3-1 (Continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-15		MW-17			
		Sample ID	USTAS4158-MW15-98B2	USTAS4158-MW15-98B1	USTAS4158-MW17-03A	USTAS4158-MW17-02D	USTAS4158-MW17-02C	USTAS4158-MW17-02B
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	5/15/1998	3/27/1998	1/14/2003 *#	10/23/2002 *#	7/15/2002 *#	4/15/2002 *#
Benzene	1		BQL	1	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	5	5	9	9
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes

Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-17					
		Sample ID	USTAS4158-MW17-02A	USTAS4158-MW17-01D	USTAS4158-MW17-01C	USTAS4158-MW17-01B	USTAS4158-MW17-01A	USTAS4158-MW17-00D
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	1/15/2002 *#	10/15/2001 #	7/16/2001 *	4/17/2001 **	1/4/2001 **	10/18/2000 *
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		10	8	8	8	3	3
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-17					
		Sample ID	USTAS4158-MW17-00C	USTAS4158-MW17-00B	USTAS4158-MW17-00A	USTAS4158-MW17-99D	USTAS4158-MW17-99C	USTAS4158-MW17-99B
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	7/26/2000 *	4/24/2000 *#	1/12/2000 *#	10/20/1999 *#	7/14/1999 *#	4/19/1999 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		3	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-17					
		Sample ID	USTAS4158-MW17-99A	USTAS4158-MW17-98D	USTAS4158-MW17-98C1	USTAS4158-MW17-98B3	USTAS4158-MW17-98B2	USTAS4158-MW17-98B1
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	1/25/1999 *#	10/21/1998	7/23/1998	6/24/1998	5/15/1998	3/27/1998
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-1 (continued)
 Summary of Detected Concentrations
 Groundwater Monitoring Well Samples
 Building AS-4158
 Marine Corps Air Station
 New River, North Carolina

Parameter	NCDENR	Sample Location	MW-18					
		Sample ID	USTAS4158-MW18-02D	USTAS4158-MW18-02C	USTAS4158-MW18-02B	USTAS4158-MW18-02A	USTAS4158-MW18-01D	USTAS4158-MW18-01B
Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L	Regulatory Limit	Sample Date	10/23/2002 *#	7/15/2002 *#	4/15/2002 *#	1/15/2002 *#	10/15/2001 #	4/17/2001 *#
Benzene	1		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL	BQL	BQL
Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L								
Naphthalene	21		BQL	BQL	BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL	BQL	BQL

Notes:
 Detected concentrations are indicated in boldface type.
 Detected concentrations above the regulatory limits are indicated by shading.
 NA indicates that the sample was not analyzed for the constituent.
 BQL = Below Laboratory Quantitation Limit
 * verified with laboratory data package
 # verified with electronic data deliverables

Table 3-1 (continued)
Summary of Detected Concentrations
Groundwater Monitoring Well Samples
Building AS-4158
Marine Corps Air Station
New River, North Carolina

Parameter	NCDENR	Sample Location	MW-18			
		Sample ID	USTAS4158-MW18-00B	USTAS4158-MW18-99C	USTAS4158-MW18-99B	USTAS4158-MW18-98A
<i>Volatile Aromatic Hydrocarbons by USEPA Method 602, ug/L</i>	Regulatory Limit	Sample Date	4/25/2000 *#	7/14/1999	4/19/1999 *#	3/27/1998
Benzene	1		BQL	BQL	BQL	BQL
Ethylbenzene	29		BQL	BQL	BQL	BQL
Methyl-tert-butyl ether (MTBE)	200		BQL	BQL	BQL	BQL
Toluene	1000		BQL	BQL	BQL	BQL
Total Xylenes	530		BQL	BQL	BQL	BQL
<i>Polynuclear Aromatic Hydrocarbons by USEPA Method 625/8270C, ug/L</i>						
Naphthalene	21		BQL	BQL	BQL	BQL
Acenaphthene	80		BQL	BQL	BQL	BQL
Fluorene	280		BQL	BQL	BQL	BQL
Phenanthrene	210		BQL	BQL	BQL	BQL
Anthracene	2100		BQL	BQL	BQL	BQL
Pyrene	210		BQL	BQL	BQL	BQL
1-Methylnaphthalene	Detection Limit		BQL	BQL	BQL	BQL
2-Methylnaphthalene	28		BQL	BQL	BQL	BQL

Notes:

Detected concentrations are indicated in boldface type.
Detected concentrations above the regulatory limits are indicated by shading.
NA indicates that the sample was not analyzed for the constituent.
BQL = Below Laboratory Quantitation Limit
* verified with laboratory data package
verified with electronic data deliverables

Table 3-2
Summary of Detected Concentrations
Treatment System Samples
Building AS-4158
Camp Lejeune, North Carolina

Parameter	Sample Location	SVE-I	
	Sample ID	USTAS4158-SVE-I-03A	USTAS4158-SVE-I-02D
<i>Volatile Aromatic Hydrocarbons by USEPA Method 18, ppm</i>	Sample Date	1/7/2003 *	10/16/2002
Benzene		BQL	BQL
Ethylbenzene		BQL	BQL
Toluene		BQL	BQL
Total Xylenes		BQL	BQL

NOTE:

SVE-I collected from Soil Vapor Extraction System Influent.

SVE-E collected from Soil Vapor Extraction System Effluent.

Bold type indicates detected concentrations above

laboratory quantitation limits.

BQL = Below Laboratory Quantitation Limit

* verified with laboratory data package

Table 3-2
Summary of Detected Concentrations
Treatment System Samples
Building AS-4158
Camp Lejeune, North Carolina

Parameter	Sample Location	SVE-E						
	Sample ID	USTAS4158-SVE-E-02A	USTAS4158-SVE-E-01D	USTAS4158-SVE-E-01C	USTAS4158-SVE-E-01A	USTAS4158-SVE-E-99D	USTAS4158-SVE-E-99C	USTAS4158-SVE-E-99B
<i>Volatile Aromatic Hydrocarbons by USEPA Method 18, ppm</i>	Sample Date	1/8/2002 *	10/9/2001 *	7/9/2001 *	2/15/2001 *	10/13/1999 *	7/7/1999 *	4/12/1999 *
Benzene		BQL	BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene		BQL	BQL	BQL	BQL	BQL	BQL	BQL
Toluene		BQL	BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes		BQL	BQL	BQL	BQL	BQL	BQL	BQL

NOTE:

SVE-I collected from Soil Vapor Extraction System Influent.

SVE-E collected from Soil Vapor Extraction System Effluent.

Bold type indicates detected concentrations above laboratory quantitation limits.

BQL = Below Laboratory Quantitation Limit

* verified with laboratory data package

Table 3-2
Summary of Detected Concentrations
Treatment System Samples
Building AS-4158
Camp Lejeune, North Carolina

Parameter	Sample Location	SVE-E					
	Sample ID	USTAS4158-SVE-E-99A	USTAS4158-SVE-E-98D	USTAS4158-SVE-E-98C1	USTAS4158-SVE-E-98B3	USTAS4158-SVE-E-98B2	USTAS4158-SVE-E-98B1
<i>Volatile Aromatic Hydrocarbons by USEPA Method 18, ppm</i>	Sample Date	1/18/1999 *	10/15/1998	7/22/1998	6/19/1998	5/8/1998	4/22/1998
Benzene		BQL	BQL	BQL	BQL	BQL	BQL
Ethylbenzene		BQL	BQL	BQL	BQL	BQL	BQL
Toluene		BQL	BQL	BQL	BQL	BQL	BQL
Total Xylenes		BQL	BQL	BQL	BQL	BQL	17.9

NOTE:

SVE-I collected from Soil Vapor Extraction System Influent.

SVE-E collected from Soil Vapor Extraction System Effluent.

Bold type indicates detected concentrations above laboratory quantitation limits.

BQL = Below Laboratory Quantitation Limit

* verified with laboratory data package

Table 4-1 (Page 1 of 6)
Summary of Laboratory Analyses for Groundwater
Building AS-4158
April 2004

Sample Location	NCGWQS	MW-4	MW-5	MW-7	MW-8	MW-9*	MW-10
Date Sampled		04/14/04	04/14/04	04/14/04	04/15/04	04/16/04	04/16/04
EPA 602 (µg/L)							
Benzene	1	<1.0	<1.0	<1.0	<1.0	20.3	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	5.2	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	7.3	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	62.3	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	<1.0	<1.0	2.2	<1.0
Total BTEX		ND	ND	ND	ND	95.1	ND
EPA 610 (µg/L)							
Acenaphthene	80	<5.2	<5.2	<5.2	<5.2	<110	<5.0
Acenaphthylene	210	<5.2	<5.2	<5.2	<5.2	<110	<5.0
Anthracene	2100	<5.2	<5.2	<5.2	<5.2	<110	<5.0
Benzo(a)anthracene	0.05	<5.2	<5.2	<5.2	<5.2	<110	<5.0
Fluoranthene	280	<5.2	<5.2	<5.2	<5.2	<110	<5.0
Fluorene	280	<5.2	<5.2	<5.2	<5.2	<110	<5.0
1-Methylnaphthalene	RL	<5.2	<5.2	<5.2	<5.2	<110	<5.0
2-Methylnaphthalene	14	<5.2	<5.2	<5.2	<5.2	<110	<5.0
Naphthalene	21	<5.2	<5.2	<5.2	<5.2	<110	<5.0
Phenanthrene	210	<5.2	<5.2	<5.2	<5.2	<110	<5.0
Pyrene	210	<5.2	<5.2	<5.2	<5.2	<110	<5.0

Sample Location	NCGWQS	MW-11	MW-13*	MW-14	MW-17	MW-18	DUP**
Date Sampled		04/15/04	04/15/04	04/16/04	04/16/04	04/15/04	04/15/04
EPA 602 (µg/L)							
Benzene	1	2.5	19.4	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	4.5	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	1.1	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	9.7	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	6.8	47.4	<1.0	31.9	<1.0	<1.0
Total BTEX		2.5	64.8	ND	ND	ND	ND
EPA 610 (µg/L)							
Acenaphthene	80	<5.0	<20	<5.1	<5.0	<5.0	<5.1
Acenaphthylene	210	<5.0	<20	<5.1	<5.0	<5.0	<5.1
Anthracene	2100	<5.0	<20	<5.1	<5.0	<5.0	<5.1
Benzo(a)anthracene	0.05	<5.0	<20	<5.1	<5.0	<5.0	<5.1
Fluoranthene	280	<5.0	<20	<5.1	<5.0	<5.0	<5.1
Fluorene	280	<5.0	<20	<5.1	<5.0	<5.0	<5.1
1-Methylnaphthalene	RL	<5.0	<20	<5.1	<5.0	<5.0	<5.1
2-Methylnaphthalene	14	<5.0	<20	<5.1	<5.0	<5.0	<5.1
Naphthalene	21	<5.0	<20	<5.1	<5.0	<5.0	<5.1
Phenanthrene	210	<5.0	<20	<5.1	<5.0	<5.0	<5.1
Pyrene	210	<5.0	<20	<5.1	<5.0	<5.0	<5.1

* Polynuclear aromatic hydrocarbons exhibited elevated reporting limits due to matrix interference effects

** DUP is a duplicate sample collected at well MW-18

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; therefore, the NCGWQS for the constituent is the reporting limit

µg/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 2 of 6)
Summary of Laboratory Analyses for Groundwater
Building AS-4158
July 2004

Sample Location	NCGWQS	MW-4	MW-5	MW-7	MW-8	MW-10	MW-11
Date Sampled		07/12/04	07/12/04	07/12/04	07/13/04	07/12/04	07/13/04
EPA 602 (µg/L)							
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	2.7
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	1.3	1.1	0.83 J	<1.0	0.79 J	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	7.0
Total BTEX		1.3	1.1	0.83	ND	0.79	2.7
EPA 610 (µg/L)							
Acenaphthene	80	<4.8	<4.9	<4.8	<4.9	<4.9	<4.8
Acenaphthylene	210	<4.8	<4.9	<4.8	<4.9	<4.9	<4.8
Anthracene	2100	<4.8	<4.9	<4.8	<4.9	<4.9	<4.8
Benzo(a)anthracene	0.05	<4.8	<4.9	<4.8	<4.9	<4.9	<4.8
Fluoranthene	280	<4.8	<4.9	<4.8	<4.9	<4.9	<4.8
Fluorene	280	<4.8	<4.9	<4.8	<4.9	<4.9	<4.8
1-Methylnaphthalene	RL	<4.8	<4.9	<4.8	<4.9	<4.9	<4.8
2-Methylnaphthalene	14	<4.8	<4.9	<4.8	<4.9	<4.9	<4.8
Naphthalene	21	<4.8	<4.9	<4.8	<4.9	<4.9	<4.8
Phenanthrene	210	<4.8	<4.9	<4.8	<4.9	<4.9	<4.8
Pyrene	210	<4.8	<4.9	<4.8	<4.9	<4.9	<4.8
Sample Location	NCGWQS	MW-13	MW-14	MW-15	MW-17	MW-18	DUP**
Date Sampled		07/13/04	07/12/04	07/12/04	07/13/04	07/12/04	07/12/04
EPA 602 (µg/L)							
Benzene	1	1.9	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	1.4	0.98 J	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	35.7	<1.0	<1.0	30.2	<1.0	<1.0
Total BTEX		1.9	1.4	0.98	ND	ND	ND
EPA 610 (µg/L)							
Acenaphthene	80	<5.1	<4.9	<4.9	<4.8	<4.8	<4.8
Acenaphthylene	210	<5.1	<4.9	<4.9	<4.8	<4.8	<4.8
Anthracene	2100	<5.1	<4.9	<4.9	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	<5.1	<4.9	<4.9	<4.8	<4.8	<4.8
Fluoranthene	280	<5.1	<4.9	<4.9	<4.8	<4.8	<4.8
Fluorene	280	<5.1	<4.9	<4.9	<4.8	<4.8	<4.8
1-Methylnaphthalene	RL	<5.1	<4.9	<4.9	<4.8	<4.8	<4.8
2-Methylnaphthalene	14	<5.1	<4.9	<4.9	<4.8	<4.8	<4.8
Naphthalene	21	<5.1	<4.9	<4.9	<4.8	<4.8	<4.8
Phenanthrene	210	<5.1	<4.9	<4.9	<4.8	<4.8	<4.8
Pyrene	210	<5.1	<4.9	<4.9	<4.8	<4.8	<4.8

** DUP is a duplicate sample collected at well MW-18

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; therefore, the NCGWQS for the constituent is the reporting limit

µg/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 3 of 6)
Summary of Laboratory Analyses for Groundwater
Building AS-4158
October 2004

Sample Location	NCGWQS	MW-1	MW-4	MW-5	MW-7	MW-8	MW-9	MW-10
Date Sampled		10/07/04	10/07/04	10/07/04	10/07/04	10/08/04	10/08/04	10/07/04
EPA 602 (µg/L)								
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	18.7	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	6.0	<1.0
Toluene	1000	0.72 J	0.57 J	0.61 J	0.51 J	0.72 J	5.3 J	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	62.2	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0
Total BTEX		0.72	0.57	0.61	0.51	0.72	92.2	ND
EPA 610 (µg/L)								
Acenaphthene	80	<4.9	<4.8	<5.0	<4.8	<4.8	<53	<4.8
Acenaphthylene	210	<4.9	<4.8	<5.0	<4.8	<4.8	<53	<4.8
Anthracene	2100	<4.9	<4.8	<5.0	<4.8	<4.8	<53	<4.8
Benzo(a)anthracene	0.05	<4.9	<4.8	<5.0	<4.8	<4.8	<53	<4.8
Fluoranthene	280	<4.9	<4.8	<5.0	<4.8	<4.8	<53	<4.8
Fluorene	280	<4.9	<4.8	<5.0	<4.8	<4.8	<53	<4.8
1-Methylnaphthalene	RL	<4.9	<4.8	<5.0	<4.8	<4.8	<53	<4.8
2-Methylnaphthalene	14	<4.9	<4.8	<5.0	<4.8	<4.8	<53	<4.8
Naphthalene	21	<4.9	<4.8	<5.0	<4.8	<4.8	<53	<4.8
Phenanthrene	210	<4.9	<4.8	<5.0	<4.8	<4.8	<53	<4.8
Pyrene	210	<4.9	<4.8	<5.0	<4.8	<4.8	<53	<4.8

Sample Location	NCGWQS	MW-11	MW-13	MW-14	MW-15	MW-17	MW-18	DUP*
Date Sampled		10/08/04	10/07/04	10/07/04	10/07/04	10/08/04	10/07/04	10/07/04
EPA 602 (µg/L)								
Benzene	1	6.7	35.1	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	3.6	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	0.58 J	1.9	0.68 J	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	8.3	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	3.3	38.4	<1.0	<1.0	28.1	<1.0	<1.0
Total BTEX		7.28	48.9	0.68	ND	ND	ND	ND
EPA 610 (µg/L)								
Acenaphthene	80	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
1-Methylnaphthalene	RL	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
2-Methylnaphthalene	14	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8

* DUP is a duplicate sample collected at well MW-18

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; therefore, the NCGWQS for the constituent is the reporting limit

µg/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 4 of 6)
Summary of Laboratory Analyses for Groundwater
Building AS-4158
January 2005

Sample Location	NCGWQS	MW-1	MW-4	MW-5	MW-7	MW-8	MW-10	MW-11
Date Sampled		01/04/05	01/04/05	01/04/05	01/04/05	01/04/05	01/04/05	01/04/05
EPA 602 (µg/L)								
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.4
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	0.89 J	0.73 J	<1.0	0.64 J	<1.0	<1.0	0.98 J
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	1.1 J
Methyl Tert Butyl Ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.8
Total BTEX		0.89	0.73	ND	0.64	ND	ND	6.48
EPA 610 (µg/L)								
Acenaphthene	80	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
1-Methylnaphthalene	RL	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
2-Methylnaphthalene	14	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8

Sample Location	NCGWQS	MW-13	MW-14	MW-15	MW-17	MW-18	DUP*
Date Sampled		01/04/05	01/04/05	01/04/05	01/04/05	01/04/05	01/04/05
EPA 602 (µg/L)							
Benzene	1	0.9 J	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	0.9 J	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	1 J	0.65 J	1.3	<1.0	<1.0	<1.0
Xylenes (total)	530	2.7 J	<3.0	1.1 J	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	53.7	<1.0	<1.0	33.7	<1.0	<1.0
Total BTEX		6.6	0.65	2.4	ND	ND	ND
EPA 610 (µg/L)							
Acenaphthene	80	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
1-Methylnaphthalene	RL	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
2-Methylnaphthalene	14	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8

* DUP is a duplicate sample collected at well MW-18

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; therefore, the NCGWQS for the constituent is the reporting limit

µg/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 5 of 6)
Summary of Laboratory Analyses for Groundwater
Building AS-4158
April 2005

Sample Location	NCGWQS	MW-1	MW-4	MW-5	MW-7	MW-8	MW-9	MW-10
Date Sampled		04/05/05	04/05/05	04/05/05	04/19/05	04/20/05	04/20/05	04/19/05
EPA 602 (µg/L)								
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	1.6	1.4	0.6 J	<1.0	0.65 J	0.8 J	<1.0
Xylenes (total)	530	1.5 J	1.1 J	<1.2	<3.0	<3.0	18.1	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	<1.3	<1.0	<1.0	2.3	<1.0
Total BTEX		3.1	2.5	<1.4	ND	0.65	20.71	ND
EPA 610 (µg/L)								
Acenaphthene	80	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
1-Methylnaphthalene	RL	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
2-Methylnaphthalene	14	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.9	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Sample Location	NCGWQS	MW-11	MW-13	MW-14	MW-15	MW-17	MW-18	DUP*
Date Sampled		04/20/05	04/19/05	04/19/05	04/19/05	04/05/05	04/05/05	04/05/05
EPA 602 (µg/L)								
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	0.58 J	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	80.3	35.7	<1.0	<1.0	33.5	<1.0	<1.0
Total BTEX		ND	ND	0.58	ND	ND	ND	ND
EPA 610 (µg/L)								
Acenaphthene	80	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
1-Methylnaphthalene	RL	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
2-Methylnaphthalene	14	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<5.0	<4.8	<4.8	<4.8	<4.8

* DUP is a duplicate sample collected at well MW-18

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; therefore, the NCGWQS for the constituent is the reporting limit

µg/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 6 of 6)
Summary of Laboratory Analyses for Groundwater
Building AS-4158
July 2005

Sample Location	NCGWQS	MW-1	MW-3	MW-4	MW-5	MW-7	MW-8	MW-9	MW-10
Date Sampled		07/27/05	07/27/05	07/27/05	07/27/05	07/27/05	07/27/05	07/28/05	07/27/05
EPA 602 (µg/L)									
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.67 J	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	11	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX		ND	ND	ND	ND	ND	ND	14.17	ND
EPA 610 (µg/L)									
Acenaphthene	80	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
1-Methylnaphthalene	RL	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
2-Methylnaphthalene	14	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8

Sample Location	NCGWQS	MW-11	MW-13	MW-14	MW-15	MW-17	MW-18	DUP*
Date Sampled		07/27/05	07/27/05	07/27/05	07/28/05	07/28/05	07/28/05	07/28/05
EPA 602 (µg/L)								
Benzene	1	0.97 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	1	<1.0	0.52 J	0.52 J
Xylenes (total)	530	<3.0	<3.0	<3.0	1.6 J	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	29.9	47.4	<1.0	<1.0	29.4	<1.0	<1.0
Total BTEX		0.97	ND	ND	2.6	ND	0.52	0.52
EPA 610 (µg/L)								
Acenaphthene	80	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
1-Methylnaphthalene	RL	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
2-Methylnaphthalene	14	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8

* DUP is a duplicate sample collected at well MW-18

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; therefore, the NCGWQS for the constituent is the reporting limit

µg/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards