2005 ANNUAL MONITORING REPORT
BUILDING 820
MARINE CORPS BASE, CAMP LEJEUNE
ONSLOW COUNTY, NORTH CAROLINA

Prepared for:

DEPARTMENT OF THE NAVY
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Naval Facilities Engineering Command, Atlantic
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Task Order 0055
Shaw Project No. 117407

June 2006

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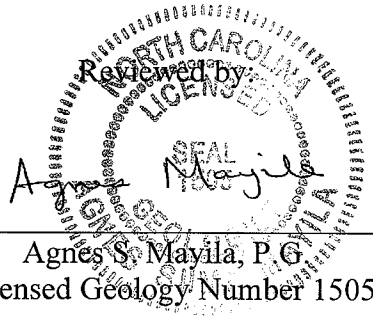
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LIST OF ACRONYMS AND ABBREVIATIONS

AS	Air Sparge
bls	below land surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAP	Corrective Action Plan
COCs	Contaminants of Concern
DRO	TPH-Diesel Range Organics
EPA	Environmental Protection Agency
GRO	TPH-Gasoline Range Organics
LAW	Law Engineering and Environmental Services
Lb/day	Pounds per day
MCB	Marine Corps Base
mg/L	milligrams per liter
MTBE	Methyl Tert Butyl Ether
mV	Millivolt
MW	Monitoring Well
NCAC	North Carolina Administrative Code
NGVD	National Geodetic Vertical Datum
NTUs	Nephelometric Turbidity Units
ORP	Oxidation Reduction Potential
PAH	Polynuclear Aromatic Hydrocarbon
SVE	Soil Vapor Extraction
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbons
ug/L	micrograms per liter
umhos	Micromhos
UST	Underground Storage Tank
VOAs	Volatile Organic Analysis
VOHs	Volatile Organic Halogens

TITLE PAGE

The facility name, UST owner, UST operator, and UST information are provided below:

UST Incident Number: 23135

ID Number: Not Applicable

Risk Classification: Intermediate

UST Owner: Commanding General, MCB
I&E/EMD/EQB
PSC Box 20004
Onslow County
Camp Lejeune, NC 28542
(910) 451-5068

UST Operator: Commanding General, MCB
I&E/EMD/EQB
PSC Box 20004
Onslow County
Camp Lejeune, NC 28542
(910) 451-5068

Primary Responsible Party Contact: Andrew Smith
Environmental Engineer
I&E/EMD/EQB
PSC Box 20004
Onslow County
Camp Lejeune, NC 28542
(910) 451-5068

Date of Release: Unknown
Quanity of Release: Unknown
Source of Release: USTs/Line Leak
Latitude and Longitude: 34° 42' 0.662077" N
77° 21' 16.0669" W

Tank Number	Installation Date	Tank Capacity	Tank Dimensions	Last Dimensions	Previous Contents
820-1	Unknown	10000	Unknown	Gasoline	Unknown
820-2	Unknown	10000	Unknown	Gasoline	Unknown
820-3	Unknown	10000	Unknown	Gasoline	Unknown
820-4	Unknown	10000	Unknown	Diesel	Unknown

1.0 INTRODUCTION

This report describes the performance results and groundwater analytical results for calendar year 2005 of the Air Sparge (AS)/Soil Vapor Extraction (SVE) treatment system installed at Building 820 located at Marine Corps Base (MCB) Camp Lejeune, North Carolina. The system was installed to remediate a release of petroleum. This report is submitted in accordance with the requirements of the *Corrective Action Plan (CAP)* dated October 29, 1996, as well as *Groundwater Section Guidelines for Assessment and Corrective Action, North Carolina, Underground Storage Tanks*, published by the State of North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management, UST Section, dated April 2001.

The report provides a brief overview of the environmental history of the site, summarizes the CAP, and describes the installation and operation of the recommended remedial alternative. The report provides a discussion of monitoring results of system operation and the current status of groundwater quality compared to baseline data. In accordance with recommendations presented in the *Remedial Action Optimization and Revised Corrective Action Plan Building 820*, prepared by CATLIN Engineers and Scientists, dated February 26, 2004 a portion of the AS/SVE system was shutdown June 11, 2004. The report also presents conclusions about remedial progress to date and makes recommendations for further site monitoring.

1.1 CAMP LEJEUNE MARINE CORP BASE LOCATION AND DESCRIPTION

Located in Onslow County, North Carolina, MCB Camp Lejeune is a training base for the United States Marine Corps. The base covers approximately 236 square miles (153,000 acres) and includes 14 miles of coastline. MCB Camp Lejeune is bounded to the southeast by the Atlantic Ocean and to the northeast by State Route 24. Wooded areas are located north, east, and west of the site. The town of Jacksonville, North Carolina, is located north of the base (*Figure 1.1).*

1.2 BUILDING 820 SITE DESCRIPTION

Building 820 is located in the Berkeley Manor residential area of the Marine Corps Base, Camp Lejeune, Onslow County, North Carolina (*Figure 1.2*). The site is located on the west side of Stone Street. The site is determined to be a Category B site under the State's Site Priority Ranking System.

Building 820 is currently an active Marine Corps Exchange gas station. Four underground storage tanks (USTs) are located south of the building. These include three 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST. The USTs were upgraded in the late summer of 1995.

1.3 SITE GEOLOGY/HYDROGEOLOGY

The project area is dominated by relatively flat topography gently sloping to the south toward Wallace Creek and west toward New River. Much of the area immediately surrounding Building 820 consists of asphalt parking lot with wooded areas to the west and south and residential areas to the east. The nearest mapped bodies of surface water are New River approximately one mile to the west and Wallace Creek approximately one mile to the south. Surface water runoff from the site is diverted into a network of storm drains located at the site. Storm water collected by this system of drains ultimately discharges to the New River.

Sediment and stratigraphy in the vicinity of the site indicates that near surface soils within 6 to 8 feet below land surface (bls) generally consist of sandy clays to clayey fine sands with occasional fine sand or clay lenses. Below the surficial material, soils generally consist of relatively clean fine to medium sands to a depth of approximately 50 feet.

The groundwater aquifer is classified as a Class GA groundwaters according to the North Carolina Administrative Code (NCAC) Title 2L Subchapter 15A, Section .0201 Groundwater Classifications. Depth to groundwater ranges from 7 to 12 feet bls in shallow Type II monitoring wells and 10 to 18 feet bls in 50-feet deep Type III monitoring wells. In general, the surficial direction of groundwater flow at the site is to the south, while the deeper zone (i.e., 50 feet bls) flows to the north.

2.0 CONTAMINATION INVESTIGATION HISTORY

2.1 BUILDING 820 AREA

In the early 1990s, several environmental investigations were carried out in the vicinity of Building 820. Type II wells were installed to investigate the presence of free product and dissolved contaminants in shallow groundwater. Type III wells were installed to investigate conditions deeper in the aquifer at depths as great as 50 feet bls.

Petroleum constituents were detected in both the shallow (Type II) and deep (Type III) wells. Plumes of dissolved petroleum constituents in excess of North Carolina Groundwater Quality Standards (NCGWQS) were identified in both zones. These constituents included benzene, toluene, ethylbenzene, and xylene (BTEX); and methyl tertiary butyl ether (MTBE).

In both zones, the plumes appeared to originate from the vicinity of the USTs. The plumes appeared to extend primarily to the south for the shallow wells and west to northwest for the deep wells (the inferred direction of groundwater flow) for approximately 250 feet, with some lateral migration of approximately 150 feet to the west. Near the point of origin, the concentration of dissolved total BTEX was initially detected at concentrations as high as 157,500 micrograms per liter (µg/L). This concentration is near the saturation level for these compounds.

A passive free product recovery system installed at the site recovered approximately 43 gallons of free product from March 1994 through February 1997. In response to a NCDENR request dated June 8, 2001, additional soil samples were collected in the vicinity of the fuel dispensers and fuel lines. The samples were analyzed for the presence of hydrocarbons by Environmental Protection Agency (EPA) Method 5035/8015B and by MADEP Methods for VPH. All soil analytical results were below the NCDENR guidelines. A letter report presenting results of the additional soil investigation was submitted August 24, 2001.

2.2 CORRECTIVE ACTION PLAN

Law Engineering and Environmental Services, Inc. (LAW) prepared a CAP dated October 29, 1996. Two potential receptors were identified at greatest apparent risk. One consists of two tributaries of Wallace Creek located approximately 1,500 feet south of the

site. The other potential receptor is a drinking water supply well (well HP-623) located approximately 1,300 feet northeast of the site (*Figure 1.2*). This well was sampled in December 2005. Analytical results yielded non-detect results for volatile organic compounds using EPA Method 524.2 during the sampling event. *Appendix A* provides an analytical results summary report of 64 water supply wells that are sampled annually at the base.

Several remedial objectives were developed for the site. They were:

- Primary Source(s): Eliminate future releases through closure or integrity testing and upgrading the existing UST system at Building 820.
- Secondary Sources:
  - i) Free Product: Remove free product to less than or equal to 1/8 inch as measured in free product recovery wells and groundwater monitoring wells.
  - ii) Vadose Zone Soil Contamination: Reduce TPH in soil to 10 part per million (ppm) as measured by EPA Method 5030 (TPH-Gasoline Range Organics [GRO]) and 40 ppm as measured by EPA Method 3550 (TPH-Diesel Range Organics [DRO]).
- Dissolved-phase Groundwater Contamination: Restore groundwater to quality consistent with North Carolina groundwater quality standards. *Table 2.1* presents the Site Rehabilitation Goals which includes analytes of concern and their respective target concentrations in groundwater.
- Receptor Protection: Monitor surface waters in Wallace Creek tributaries to ensure that no violation of North Carolina surface water quality standards occurs due to this release.

LAW evaluated two alternative remedial strategies for the site. An SVE and an air sparge pilot test were conducted east of Stone Street in the vicinity of monitoring wells UST820-MW07 and UST820-MW08. Based on these studies, LAW recommended a combination of treatment technologies to meet the remedial goals at the site. These technologies included:

- Four fields of AS wells. The AS wells would be installed in areas displaying high concentrations of dissolved-phase petroleum constituents to remediate these constituents and prevent further migration of the plume. Their screened intervals would be placed from 47 to 50 feet bls to remediate the dissolved petroleum constituents in the Type II and Type III well zones.

- Four fields of SVE wells, with an individual SVE point located near each AS well. The SVE wells would remove any residual free product, capture fugitive emissions resulting from the air sparging, and remediate any adsorbed-phase petroleum in that portion of the vadose zone within each well's radius of influence.

The CAP estimated that the system would have to operate for 20 years from startup to successfully remediate the dissolved groundwater plume. Following approval of the CAP, the AS/SVE portion of the system was installed in 1997. The system was placed in operation during October 1997. The locations of the well fields and the treatment compound are shown in *Figure 2.1*.

2.3 REMEDIAL ACTION OPTIMIZATION AND REVISED CAP

CATLIN Engineers and Scientists submitted a CAP Addendum to the NCDENR titled "*Remedial Action Optimization* and *Revised Corrective Action Plan Building 820*" dated February 26, 2004. The addendum was prepared following a thorough review of available reports and field data since the AS/SVE remedial system was placed in operation as well as a field reconnaissance and interviews with the system operators.

The potential receptors were re-evaluated during preparation of the RCAP using the North Carolina Risk Classification and Land Use Form. Based on the risk characterization, it was determined that the site meets the criteria to be classified as an Intermediate Risk and Residential Land Use site. A receptor survey performed during the risk characterization identified the following receptors within 1,500 feet of the site:

- A potable water supply well 623 located approximately 1,300 feet northeast of the site.
- A tributary of Wallace Creek located approximately 1,200 feet southeast of the site.
- The site is located in an area in which there is potential recharge to the deeper aquifer being used by the potable supply well. The Well Head Protection Plan Update (2002) stated water supply well 623 is 197 feet deep with the pump depth set at 70 feet bls.
- The site is located within a potential well head protection area.
- The closest residence is approximately 400 feet east of the site.

- A youth Sports and Activities Center and a playground are located approximately 300 feet from the site.
- Athletic fields associated with a middle school are located approximately 500 feet northeast of the site.

Based on information provided by MCB Camp Lejeune, these potential receptors have not been reported to have been adversely affected by the potentially contaminated soil and/or groundwater.

The intermediate risk is based on the location of the potable water supply well 623 and the deep groundwater contamination at the site. This ranking revises the target cleanup goals for soil to Residential or Soil-to-Groundwater (whichever is lower) Maximum Soil Contaminant Concentrations (MSCCs). Groundwater target cleanup goals remain unchanged from the original CAP (i.e., 2L GWQS). A Notice of Residual Petroleum is not required for the site at this time.

Recommendations of the Revised CAP included:

- Collection of soil samples from the capillary fringe at six locations for Risk Based Analysis.
- Shutting down a portion of the current groundwater remediation system.
- Quarterly groundwater sample collection from shallow monitoring wells UST820-MW08, UST820-MW10, UST820-MW14, UST820-MW18, UST820-MW20, UST820-MW22, UST820-MW24 and UST820-MW26. The groundwater samples were to be analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.
- Install two 50-feet deep Type III monitoring wells.
- Shutdown and properly abandon water supply well 623.
- Quarterly groundwater sample collection from deep monitoring wells UST820-MW07, UST820-MW19, UST820-MW21, UST820-MW23, UST820-MW25, plus the two additional deep monitoring wells. The groundwater samples were to be analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.
- The remaining shallow monitoring wells UST820-MW02, UST820-MW03, UST820-MW04, UST820-MW05, UST820-MW06, UST820-MW11, UST820-

MW12, UST820-MW13, UST820-MW15, UST820-MW16 and UST820-MW27 should be sampled on a semi-annual basis for one year. The groundwater samples were to be analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.

- Semi-annual groundwater sample collection from deep monitoring well UST820-MW9D. The groundwater sample was to be analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.

2.4 REVISED CORRECTIVE ACTION PLAN ADDITIONAL SOIL AND GROUNDWATER CONTAMINATION ASSESSMENT

During April 2005 Shaw Environmental, Inc. collected soil samples from the capillary fringe (10 feet below land surface) at six locations that were identified in the RCAP. The samples were analyzed for VOCs using EPA Method 8260B with IPE and MTBE, SVOCs using EPA Method 8270C plus 10 highest peaks, MADEP-EPH, and MADEP-VPH. In addition, two Type III (50 feet deep) monitoring wells were installed Groundwater samples collected from the wells were analyzed for VOCs using EPA Method 8260B, SVOCs using EPA Method 8270C, MADEP-EPH, and MADEP-VPH.

Laboratory analytical for the soil samples did not result in the detection of regulated hydrocarbon compounds in excess of North Carolina Residential, Industrial or Soil-to-Groundwater Maximum Soil Contaminant Concentrations. Groundwater analytical results from the 50 feet deep Type III monitoring wells detected benzene, MTBE and chloroform at concentrations in excess of North Carolina 2L GWQS.

Based on results of the additional assessment work it was determined that additional contamination assessment work may be required to delineate the horizontal extent of groundwater contamination in the deep 50 feet depth interval. Shaw also recommended that No Further Investigation with respect to the soil at the Building 820 site is required. Results of the additional assessment work were provided in a report titled "Soil Contamination Report, Building 820, Camp Lejeune, North Carolina", dated June 2005.

3.0 AS/SVE REMEDIAL SYSTEM OPERATION AND RESULTS

3.1 AS/SVE SYSTEM OPERATION

System operation began in October 1997 and has continued to the present. During the first 15 months of operation, the AS/SVE fields were operated alternately to attempt to optimize the initial remediation. Since that time, all fields have been operated concurrently. On occasion, it has been necessary to intermittently shut down one or more fields (most commonly Fields 1 and 3) due to the effect of high groundwater conditions on SVE operations (i.e., groundwater entrainment).

This report discusses the system's operation and the monitoring results collected from January 2005 through December 2005. A portion of the system (i.e., AS/SVE well pairs 1, 5, 6, 7, 8, 12, 13, 14, 21, 22, 23, 24, 25, 30, 31, 32, 33, 34, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, and 48) was shutdown June 11, 2004 in accordance with recommendations presented in the Revised Corrective Action Plan prepared by CATLIN dated February 2004. During this operating time period no significant downtimes (exceeding several days) occurred. Minor downtime periods ranging from one day to a few days duration, occurred as a result of excessive groundwater entrainment, minor equipment repairs, routine maintenance, and groundwater monitoring events. The remedial system was in operation a total of 341 days during 2005 for an operational efficiency of 93 percent.

An operational and maintenance schedule has been established to obtain consistent system measurements and notes on system performance. With the exception of some holidays and severe short duration storms, the equipment compound was inspected every weekday that the system was in operation. During site inspection, a checklist is used to record operational measurements and conditions, such as vacuum blower meter hours, inlet filter differential pressure, and bleed air valve position. This information is used to identify areas requiring maintenance (such as filter replacement) and to fine-tune system operation.

The AS/SVE fields were inspected weekly. Included in this work was an inspection of each well vault. System components were checked and measurements such as vacuum, air velocity, and temperature were recorded. As with the equipment compound, these inspections helped to identify maintenance needs. Expanded compound measurements, including specific recovery conditions, were recorded concurrently with the weekly inspection of well vaults.

3.2 AS/SVE SYSTEM MONITORING RESULTS

Hydrocarbon recovery for the system is calculated from system operational parameters such as organic vapor concentrations, exhaust stack pressure, velocity, and temperature. These parameters are used to calculate the cumulative mass of hydrocarbons recovered.

Operational data collection for the AS/SVE system began on October 28, 1997, and has continued at regular intervals to the present. For purposes of this report, system operation data and results have been reviewed from startup through December 31, 2005. Within this period of operation, the system has recovered a cumulative mass of 20,609 pounds of hydrocarbons. From January 2005 through December 2005, approximately 360 pounds of hydrocarbons were recovered by the remedial system. This is a decrease from 770 pounds of hydrocarbons recovered in 2004. Hydrocarbon vapor recovery data is provided in *Table 3.1* and graphically presented in *Table 3.2*.

Hydrocarbon recovery rates ranged from 4.3 pounds per day (lbs/day) to <1 lb/day when the system was operating. The average recovery rate decreased from 2.0 lb/day observed in 2004 to 1.1 lbs/day in 2005. This is probably due to decreasing contaminant concentrations at the site.

No major changes were made to the system configuration from January through December 2005.

4.0 GROUNDWATER MONITORING METHODS AND RESULTS

Groundwater elevations at select monitoring wells were measured during each groundwater sampling event (February, May and August 2005). *Table 4.1* presents groundwater elevation data dating back to April 2002. *Figures 4.1 and 4.2* present groundwater elevation contour maps from August 2005 from the Type II (shallow) and Type III (deep) monitoring wells respectively. Groundwater elevations, on average, increased 1 to 2 feet in 2005 from levels observed in 2004, continuing the rising groundwater elevation trend that began in 2002.

In addition, groundwater samples from select monitoring wells at the site were collected for analysis in February, May and August 2005. The groundwater sample collection field logs are provided in *Appendix B.*

4.1 GROUNDWATER ELEVATION MEASUREMENTS

4.1.1 FEBRUARY 2005 GAUGING EVENT

In February 2005 the depth to groundwater from top of casing was gauged in seven Type II monitoring wells at the site. The depth to groundwater ranged from 12.12 feet bls in monitoring well UST820-MW26 to 16.36 feet bls in monitoring well UST820-MW22. Groundwater elevations ranged from 13.66 feet National Geodedic Vertical Datum (NGVD) in monitoring well UST820-MW24 to 18.69 feet NGVD in monitoring well UST820-MW18. No detectable thickness of free product was observed in any of the wells.

Depth to groundwater was also measured in five Type III monitoring wells. The depth to groundwater ranged from 11.85 feet bls in monitoring well UST820-MW7 to 19.03 feet bls in monitoring well UST820-MW19. Groundwater elevations ranged from 12.7 feet NGVD in monitoring well UST820-MW19 to 15.33 feet NGVD in monitoring well UST820-MW07.

4.1.2 MAY 2005 GAUGING EVENT

In May 2005 the depth to groundwater from top of casing was gauged in six Type II monitoring wells at the site. The depth to groundwater ranged from 11.96 feet bls in monitoring well UST820-MW26 to 15.12 feet bls in monitoring well UST820-MW24. Groundwater elevations ranged from 14.3 feet NGVD in monitoring well UST820-

MW08 to 19.59 feet NGVD in monitoring well UST820-MW18. No detectable thickness of free product was observed in any of the wells.

Depth to groundwater was also measured in four Type III monitoring wells. The depth to groundwater ranged from 12.16 feet bls in monitoring well UST820-MW07 to 18.36 feet bls in monitoring well UST820-MW19. Groundwater elevations ranged from 13.37 feet NGVD in monitoring well UST820-MW19 to 15.02 feet NGVD in monitoring well UST820-MW7.

4.1.3 AUGUST 2005 GAUGING EVENT

In August 2005 the depth to groundwater from top of casing was gauged in 18 Type II monitoring wells at the site. The depth to groundwater ranged from 10.36 feet bls in monitoring well UST820-MW15 to 16.19 feet bls in monitoring well UST820-MW24. Groundwater elevations ranged from 13.47 feet NGVD in monitoring well UST820-MW24 to 19.82 feet NGVD in monitoring well UST820-MW15. No detectable thickness of free product was observed in any of the wells.

Depth to groundwater was also measured in 10 Type III monitoring wells. The depth to groundwater ranged from 13.75 feet bls in monitoring well UST820-MW29 to 20.9 feet bls in monitoring well UST820-MW9D. Groundwater elevations ranged from 11.64 feet NGVD in monitoring well UST820-MW9D to 14.46 feet NGVD in monitoring well UST820-MW07.

4.2 GROUNDWATER SAMPLING AND ANALYSIS

4.2.1 FEBRUARY 2005 GROUNDWATER ANALYTICAL RESULTS

Groundwater sample collection and analysis was completed at seven Type II monitoring wells (UST820-MW08, UST820-MW14, UST820-MW18, UST820-MW20, UST820-MW22, UST820-MW24 AND UST820-MW26) on February26 through March 1, 2005. The samples were analyzed for Volatile Organic Analysis (VOA) using EPA Method 602 and polynuclear aromatic hydrocarbons (PAHs) using EPA Method 610. Of the seven monitoring wells sampled, the following wells displayed compounds in excess of North Carolina's Groundwater Quality Standards.

- UST820-MW18 [benzene, 1.2 µg/L]
- UST820-MW24 [benzene, 1.9 µg/L]

- UST820-MW26 [benzene, 2.1 µg/L]

Groundwater analytical results from the seven Type II monitoring wells for the February 2005 sampling event are presented in *Table 4.2* and *Figure 4.3 (benzene), Figure 4.4 (ethylbenzene), Figure 4.5 (toluene), Figure 4.6 (MTBE),* and *Figure 4.7 (total xylenes).* The laboratory analytical reports are provided in *Appendix C.*

Groundwater sample collection and analysis was completed at five Type III monitoring wells (UST820-MW07, UST820-MW19, UST820-MW21, UST820-MW23 and UST820-MW25) on February 26 through March 1, 2005. The samples were analyzed for VOAs using EPA Method 602 and PAHs using EPA Method 610. Of the five monitoring wells sampled, the following three wells displayed compounds in excess of North Carolina's Groundwater Quality Standards.

- UST820-MW19 [benzene, 4.1 µg/L]
- UST820-MW21 [benzene, 2.8 µg/L]
- UST820-MW25 [benzene, 4.2 µg/L]

Groundwater analytical results from the five Type III monitoring wells for the February 2005 sampling event are presented in *Table 4.3* and *Figure 4.8 (benzene), Figure 4.9 (ethylbenzene), Figure 4.10 (toluene), Figure 4.11 (MTBE),* and *Figure 4.12 (total xylenes).* The laboratory analytical reports are provided in *Appendix C.*

4.2.2 MAY 2005 GROUNDWATER ANALYTICAL RESULTS

Groundwater sample collection and analysis was completed at eight Type II monitoring wells (UST820-MW08, UST820-MW14, UST820-MW18, UST820-MW20, UST820-MW22, UST820-MW-24 and UST820-MW26) on May 27 through May 31, 2005. The samples were analyzed for VOA using EPA Method 602 and PAHs using EPA Method 610. None of the eight shallow monitoring wells sampled displayed contaminant concentrations in excess of North Carolina's Groundwater Quality Standards.

Groundwater analytical results from the eight Type II monitoring wells for the May 2005 sampling event are presented in *Table 4.4* and *Figure 4.3 (benzene), Figure 4.4 (ethylbenzene), Figure 4.5 (toluene), Figure 4.6 (MTBE),* and *Figure 4.7 (total xylenes).* The laboratory analytical reports are provided in *Appendix D.*

Groundwater sample collection and analysis was completed at seven Type III monitoring wells (UST820-MW07, UST820-MW19, UST820-MW21, UST820-MW23, UST820-MW25, UST820-MW28 and UST820-MW29) on May 25 through May 31, 2005. The samples were analyzed for VOAs using EPA Method 602 and PAHs using EPA Method 610. Of the seven monitoring wells sampled, the following two wells displayed compounds in excess of North Carolina's Groundwater Quality Standards.

- UST820-MW28 [benzene, 1,110 µg/L; and MTBE, 3,350 µg/l] and
- UST820-MW29 [benzene, 29.6 µg/L]

Groundwater analytical results from the seven Type III monitoring wells for the May 2005 sampling event are presented in *Table 4.5* and *Figure 4.8 (benzene), Figure 4.9 (ethylbenzene), Figure 4.10 (toluene), Figure 4.11 (MTBE),* and *Figure 4.12 (total xylenes).* The laboratory analytical reports are provided in *Appendix D.*

4.2.3 AUGUST 2005 GROUNDWATER ANALYTICAL RESULTS

Groundwater sample collection and analysis was completed at 19 monitoring wells (UST820-MW02, UST820-MW03, UST820-MW04, UST820-MW05, UST820-MW06, UST820-MW08, UST820-MW11, UST820-MW12, UST820-MW13, UST820-MW14, UST820-MW15, UST820-MW16, UST820-MW18, UST820-MW20, UST820-MW22, UST820-MW24, UST820-MW26, UST820-MW27 and UST820-PW01) on August 6 through August 10, 2005 as recommended in the RCAP. The samples were analyzed for VOAs using EPA Method 602, PAHs using EPA Method 610 and lead using SW846-6010B. Of the 19 monitoring wells sampled, the following six wells displayed compounds in excess of North Carolina's Groundwater Quality Standards.

- UST820-MW03 [benzene, 1.9 µg/L]
- UST820-MW06 [benzene, 150 µg/L; ethylbenzene, 1,980 µg/L; total xylenes, 1,480 µg/L; and naphthalene 281 µg/L]
- UST820-MW11 [benzene, <20 µg/L; ethylbenzene, 78.1 µg/L; total xylenes, 3,990 µg/L; toluene, 1,478 Mg/L; and naphthalene 281 µg/L]
- UST820-MW13 [benzene, 1.8 µg/L]
- UST820-MW16 [benzene, 8.6 µg/L; and Lead, 18.7 µg/L] and
- UST8220-PW01 [benzene, 12.2 µg/L]

Groundwater analytical results from the 19 Type II monitoring wells for the August 2005 sampling event are presented in *Table 4.6* and *Figure 4.3 (benzene), Figure 4.4 (ethylbenzene), Figure 4.5 (toluene), Figure 4.6 (MTBE),* and *Figure 4.7 (total xylenes).* The laboratory analytical reports are provided in *Appendix E.*

Groundwater sample collection and analysis was completed at 10 Type III monitoring wells (UST820-MW07, UST820-MW09, UST820-MW09D, UST820-MW17, UST820-MW19, UST820-MW21, UST820-MW23, UST820-MW25, UST820-MW28, and UST820-MW29) on August 6 through August 10, 2005. The samples were analyzed for VOAs using EPA Method 602 and PAHs using EPA Method 610, and lead using SW846-6010B. Of the 10 monitoring wells sampled, the following four wells displayed compounds in excess of North Carolina's Groundwater Quality Standards.

- UST820-MW09 [benzene, 1,820 µg/L; ethylbenzene, 168 µg/L; and MTBE, 2,410 µg/L]
- UST820-MW17 [benzene, 552 µg/L; and MTBE, 4,250 µg/l]
- UST820-MW28 [benzene, 1,130 µg/L; and MTBE, 2,430 µg/l] and
- UST820-MW29 [benzene, 10.7 µg/L]

Groundwater analytical results from the six Type III monitoring wells for the November 2004 sampling event are presented in *Table 4.7* and *Figure 4.8 (benzene), Figure 4.9 (ethylbenzene), Figure 4.10 (toluene), Figure 4.11 MTBE),* and *Figure 4.12 (total xylenes).* The laboratory analytical reports are provided in *Appendix E.*

5.0 CONCLUSIONS

5.1 AS/SVE SYSTEM OPERATION

The southern portion of the AS/SVE system was shutdown in June 2004 in accordance with recommendations presented in the RCAP prepared by CATLIN. The average vapor recovery rate of the AS/SVE system decreased from 2.0 lb/day (observed in 2004) to 1.1 lbs/day in 2005. This decrease is probably the result of continued reduction of contamination in both groundwater and the unsaturated zone. Continued operation of the system will reduce adsorbed phase hydrocarbons in subsurface soil that should result in further reduction of dissolved phase contaminants in groundwater at the site.

The AS/SVE remedial system continues to remove dissolved contaminants from the "shallow" surficial aquifer at the site as evidenced by the continued reduction in the dissolved contaminant concentrations observed during the 2005 monitoring period. As concentrations of contaminants of concern (COCs) in the "shallow" zone continue to decrease, the deeper zones should begin to demonstrate a similar trend.

5.2 GROUNDWATER ELEVATION MEASUREMENTS

Differences in elevations from the shallow and deep depth intervals indicate there is a significant downward vertical hydraulic gradient at the site. This downward gradient is probably responsible for the dissolved COCs detected in the Type III monitoring wells that are screened at the deeper depth intervals. In general, this downward vertical gradient has historically been observed base wide and has been attributed to base groundwater flow discharging into the New River and water production wells on the base.

The Type II contour map during 2005 indicates groundwater levels decreased 1 to 2 feet from levels observed in 2004. However, the overall slope of the groundwater surface remains essentially the same from the previous year. The groundwater surface measured in the Type II wells slopes from high points at monitoring wells UST820-MW15 and UST820-MW16 toward a low point at UST820-MW24. Based on this information, shallow groundwater at the site is inferred to flow to the south with a hydraulic gradient of approximately 0.01 ft/ft.. A comparison of historical groundwater elevations indicates the groundwater flow direction in the shallow aquifer has remained essentially unchanged and by inference, contaminant transport in the shallow zone has not changed significantly in the last nine years.

The groundwater elevation exhibited by the Type III wells during 2005, sloped from a high point at UST820-MW7 to a low point at UST820-MW28. Consistent with previous monitoring events, deeper groundwater at the site is inferred to flow from south to north with a hydraulic gradient of 0.0047 ft/ft. During 2005 monitoring wells UST820-MW23 and UST820-MW25 were added to the monitoring event. The vertical groundwater gradient at this site is variable.

5.3 GROUNDWATER ANALYTICAL CONCLUSIONS

Groundwater sampling and analysis continues to detect dissolved phase hydrocarbon components in groundwater at the site. In general, contaminant concentrations continue to demonstrate a decreasing trend. During the February 2005 groundwater sampling event, only three shallow monitoring wells (UST820-MW18, UST820-MW24, and UST820-MW26) and three deep monitoring wells (UST820-MW19, UST820-MW21 and UST820-MW25) demonstrated COCs above groundwater quality standards.

During the May 2005 sampling event none of the seven shallow monitoring wells demonstrated a contaminant concentration above groundwater quality standards and only the recently installed deep monitoring wells UST820-MW28 and UST820-MW29 demonstrated COCs above groundwater quality standards.

During the August 2005 sampling event a total of six shallow monitoring wells demonstrated COCs above groundwater quality standards. The wells included UST820-MW03, UST820-MW06, UST820-MW11, UST820-MW13, UST820-MW16 and UST820-PW01 that were added based on recommendations in the RCAP. Deep monitoring wells UST820-MW09, UST820-MW17, UST820-MW28 and UST820-MW29 continued to demonstrate COCs above groundwater quality standards.

These trends will continue to be monitored as semi-annual sampling and analysis events are completed. As mentioned in Section 5.1, continued operation of the AS/SVE system will reduce adsorbed-phase hydrocarbons in subsurface soil that should result in a reduction of dissolved-phase contaminants in groundwater at the site. For reference, historical groundwater analytical results for individual monitoring wells are provided in *Appendix F.* Graphs comparing groundwater elevation versus total BTEX concentration in select monitoring wells that have displayed the presence of BTEX compounds above the groundwater quality standard are provided in *Appendix G.* In general, the graphs demonstrate a decreasing trend in BTEX concentrations in monitoring wells at the site.

Also, there doesn't appear to be a clear correlation between groundwater elevation change and BTEX concentration fluctuations.

Groundwater analytical results from the three sampling events completed in 2005 indicate the concentration of dissolved contaminants has decreased slightly since November 2004. Based on analytical results from the 2005 sampling events, the horizontal extent of the plume in the shallow aquifer has been delineated at the site. The Type III monitoring well MW-9D (screened from 95 to 100 feet bls) aids in the delineation of the vertical extent of contamination at the site. However, Type III monitoring wells UST820-MW09 and UST820-MW17 (screened 45 to 50 feet bls) and the new monitoring wells UST820-MW28 and UST820-MW29 continue to display concentrations of COCs that exceed North Carolina's Groundwater Quality Standards. This indicates the lateral extent of contamination in the 50-feet depth interval has not been delineated to the north, northwest and southeast.

6.0 RECOMMENDATIONS

Results of the optimization survey completed by CATLIN in 2004, concluded that the site meets the criteria for classification as an Intermediate Risk and Residential Land Use site. This ranking revises the target cleanup goals for both soil and groundwater. The new target cleanup level for soil will be based on the Residential or Soil-to-Groundwater (whichever is lower) Maximum Soil Contaminant Concentrations (MSCCs), and the target cleanup level for groundwater will remain 2L GWQS.

6.1 AS/SVE SYSTEM

In accordance with recommendations presented in the revised corrective plan completed by CATLIN, a portion of the AS/SVE system was shutdown June 11, 2004 and quarterly groundwater sampling and analysis was completed in 2005. The remaining active portion of the AS/SVE system will remain on during implementation of the ongoing groundwater monitoring program.

6.2 GROUNDWATER LEVEL MEASUREMENTS

Depth to groundwater/product measurements should continue at all monitoring wells being sampled at the site. Results of the measurements will be used to develop a groundwater elevation contour map of the site in both the "shallow" and "deep" aquifer zones.

6.3 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

The recommendations developed in the RCAP prepared by CATLIN requiring one year of quarterly groundwater sampling and analysis has been completed. The Navy is recommending returning to a semi-annual groundwater sampling and analysis schedule. The following bullets present the proposed groundwater monitoring plan:

- Semi-annual groundwater sample collection from shallow monitoring wells UST820-MW02, UST820-MW03, UST820-MW04, UST820-MW05, UST820-MW06, UST820-MW08, UST820-MW10, UST820-MW11, UST820-MW12, UST820-MW13, UST820-MW14, UST820-MW15, UST820-MW16, UST820-MW18, UST820-MW20, UST820-MW22, UST820-MW24, UST820-MW26 and UST820-MW27. The groundwater samples are to be analyzed for VOCs using

EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.

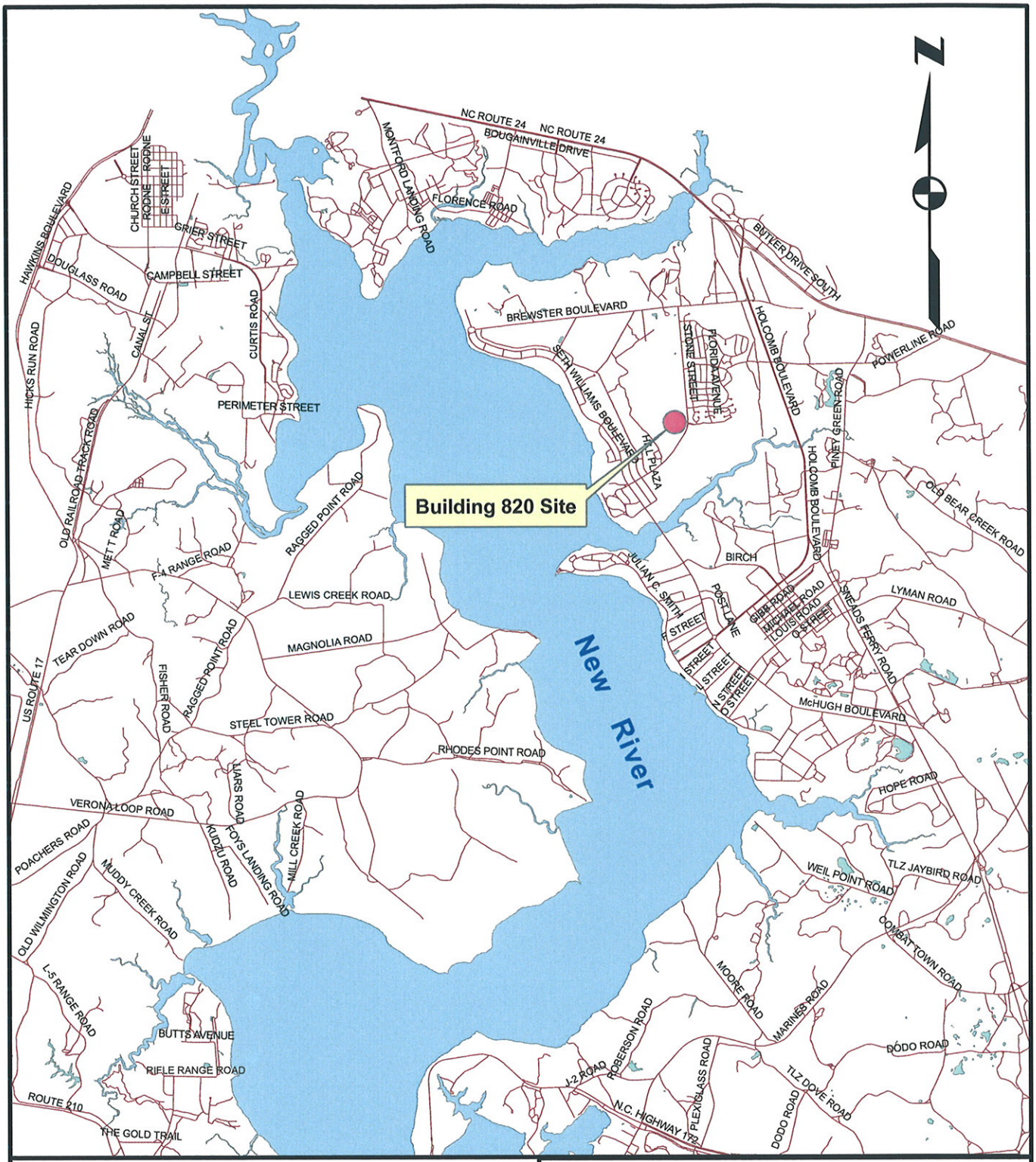
- Semi-annual groundwater sample collection from deep monitoring wells UST820-MW07, UST820-MW09, UST820-MW09D, UST820-MW-17, UST820-MW19, UST820-MW21, UST820-MW23, UST820-MW25, UST820-MW28 and UST820-MW29. The groundwater samples are to be analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs using EPA Method 625 for PAH compounds only, and Standard Prep Method 3030C for lead.

The analytical results will be compared to the 2L groundwater quality standard (GWQS). *Table 6.1* presents a summary of the semi-annual groundwater sampling program.

A flow-through cell will continue to be used in the measurement of DO, pH, conductivity and ORP in the field. This eliminates exposure of the purged groundwater to air that will produce erroneous results that are biased high. Analytical results from the sampling events will be reviewed and recommendations for future remedial work at the site will be developed as appropriate.

In addition, the Navy recommends additional groundwater assessment activities be completed at the site to delineate the horizontal extent of groundwater contamination in the 50-feet depth interval. This assessment work is expected to be completed during 2006.

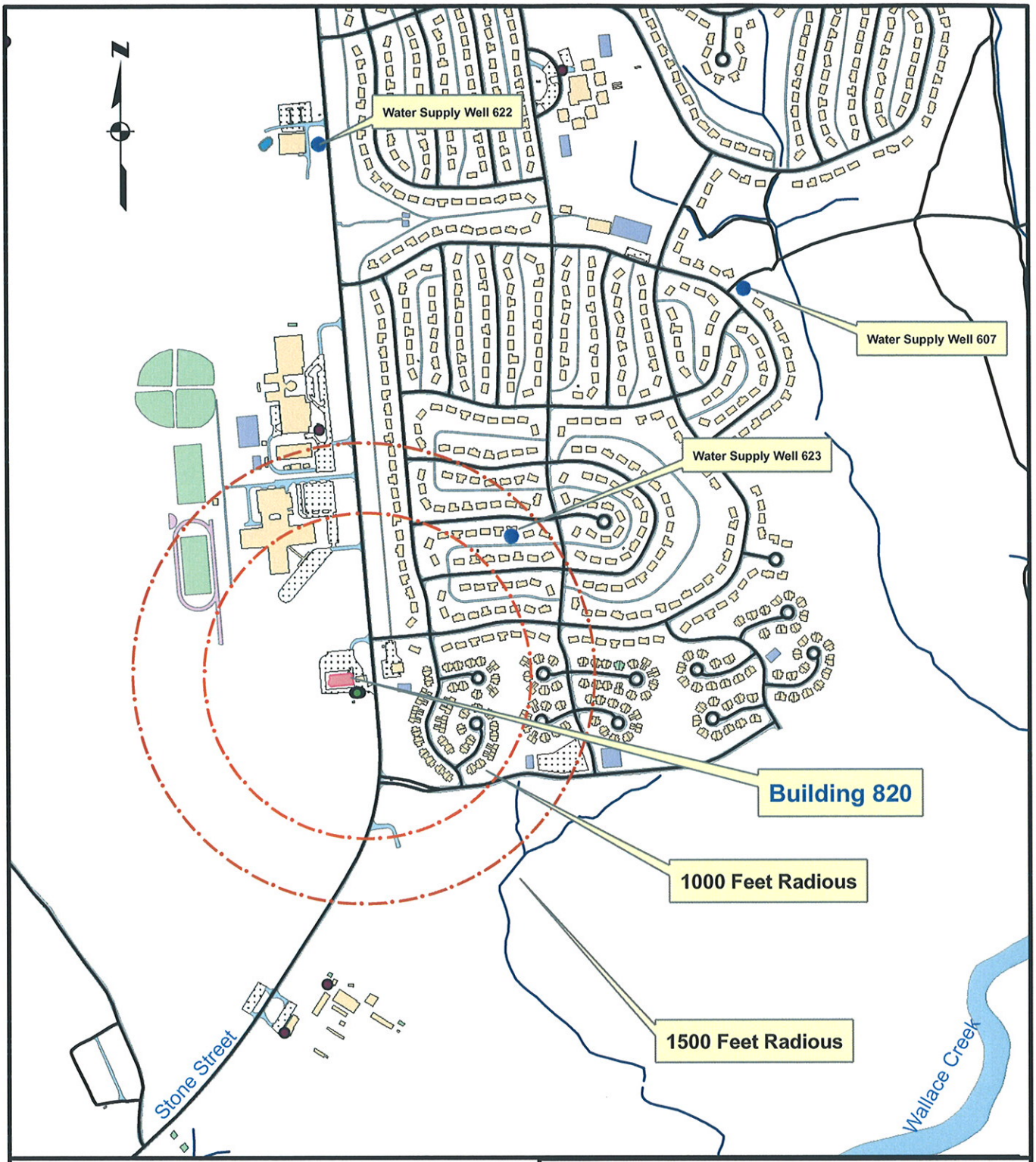
FIGURES



0 5,000 10,000 20,000 Feet

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FIGURE 1-1
SITE VICINITY MAP
BUILDING 820
MARINE CORPS BASE
CAMP LEJEUNE



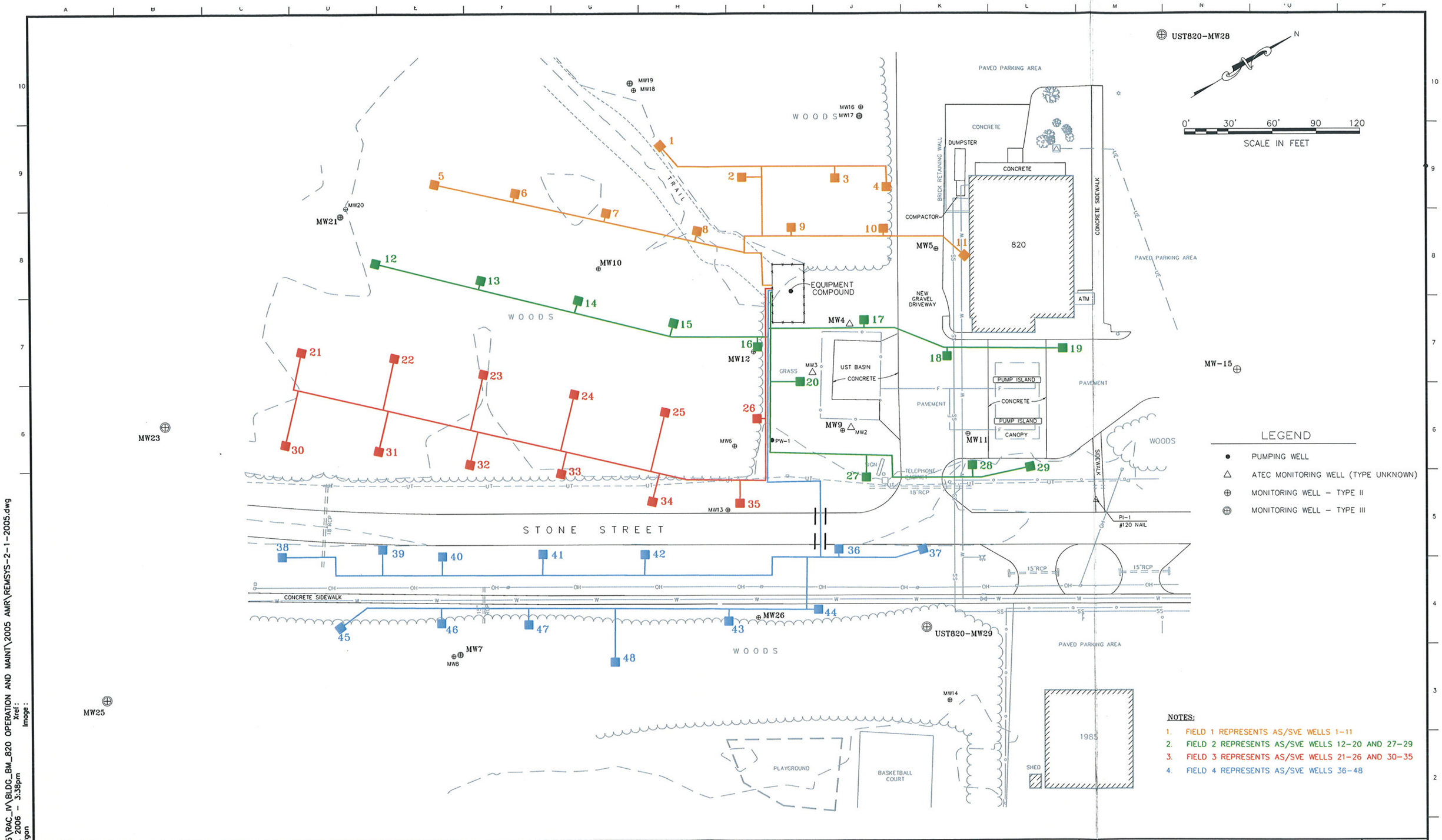
0 550 1100 1650 2200 Feet

Legend

- surf_wat_course_centerline
- buildings_general_area
- surface_water_course_area
- surface_water_body_area
- ABOVE GROUND STORAGE TANK
- UNDERGROUND STORAGE TANK
- road_area
- vehicle_driveway_area

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FIGURE 1-2
SITE LOCATION MAP
BUILDING 820
MARINE CORPS BASE
CAMP LEJEUNE



LEGEND

- ● PUMPING WELL
- △ ATEC MONITORING WELL (TYPE UNKNOWN)
- ⊕ MONITORING WELL – TYPE II
- ⊕ MONITORING WELL – TYPE III

NOTES:

1. FIELD 1 REPRESENTS AS/SVE WELLS 1–11
2. FIELD 2 REPRESENTS AS/SVE WELLS 12–20 AND 27–29
3. FIELD 3 REPRESENTS AS/SVE WELLS 21–26 AND 30–35
4. FIELD 4 REPRESENTS AS/SVE WELLS 36–48

REVISIONS					
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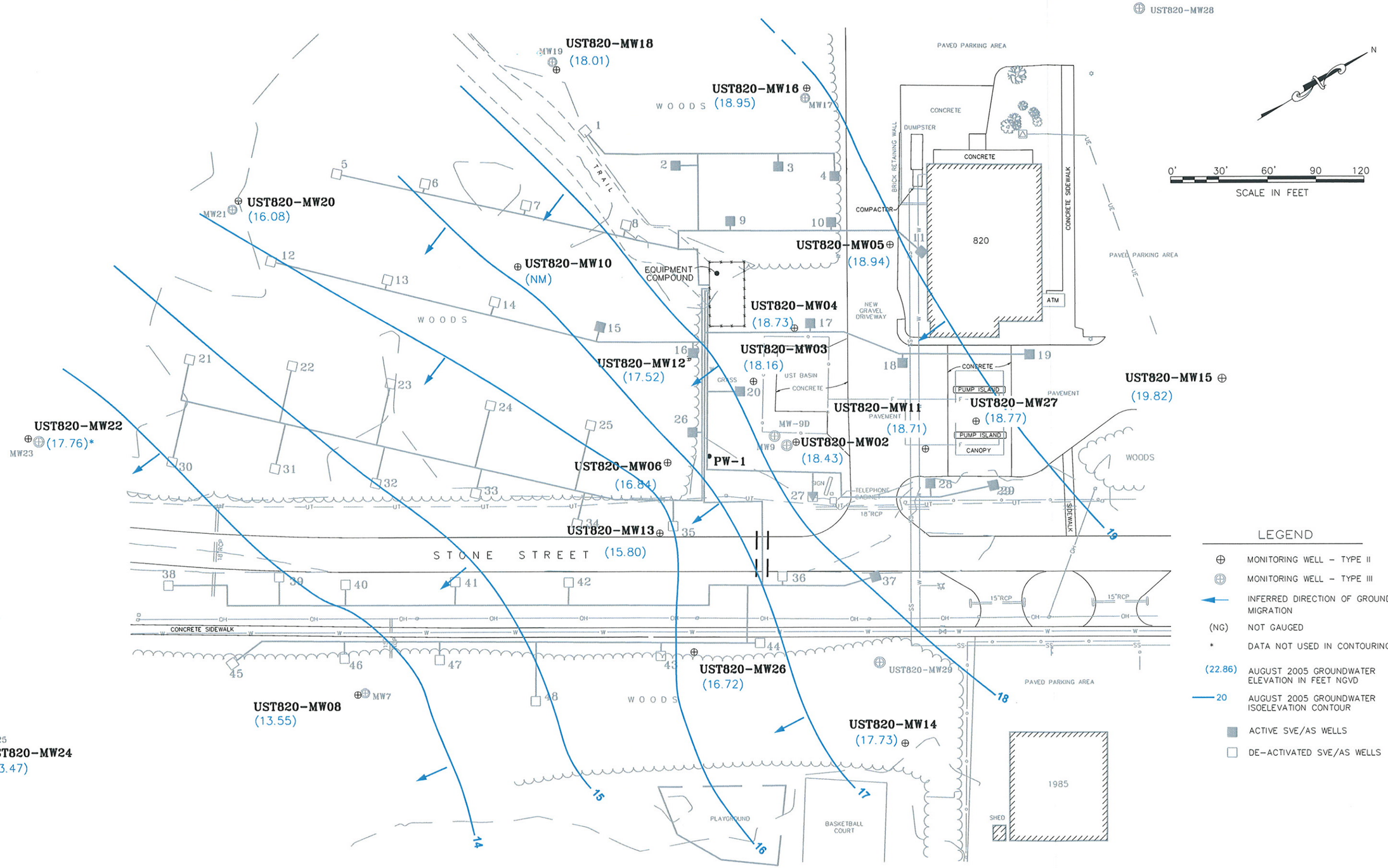
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DESIGNED: B. BROWN
CHECKED: R. KENYON
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FIGURE 2.1
ANNUAL REPORT 2005
SITE MAP/ REMEDIAL SYSTEM LAYOUT
BERKELEY MANOR 820

NAVFAC DRAWING NO.
SHEET NUMBER: of
DATE: 11/22/05

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FIGURE 4.1
ANNUAL REPORT 2005
GROUNDWATER ELEVATION CONTOUR MAP
TYPE II WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.
SHEET NUMBER: of
DATE: 2/15/06

UST820-MW28
(12.64)

N

UST820-MW19
(12.78)

UST8-MW17
(12.77)

UST820-MW21
(13.00)

UST820-MW23
(13.37)

UST820-MW09D
(11.64)*

UST820-MW09
(13.14)

UST820-MW29
(12.42)

UST820-MW07
(14.46)

UST820-MW25
(13.00)

MW-15

MW-27

MW1 MW2 MW3 MW4 MW5 MW6 MW7 MW8 MW10 MW11 MW12 MW13 MW14 MW16 MW18 MW20 MW26

WOODS

STONE STREET

TRAIL

PAVED PARKING AREA

CONCRETE

DUMPSTER

BRICK RETAINING WALL

CONCRETE SIDEWALK

COMPACTOR

820

ATM

EQUIPMENT COMPOUND

NEW GRAVEL DRIVEWAY

UST BASIN

CONCRETE

GRASS

PUMP ISLAND

CANOPY

PAVEMENT

SIDEWALK

TELEPHONE CABINET

SIGN

18"RCP

15"RCP

PW-1

13.0

13.5

14

PLAYGROUND

BASKETBALL COURT

1985

SHED

0' 30' 60' 90 120

SCALE IN FEET

LEGEND

- MONITORING WELL – TYPE II
- MONITORING WELL – TYPE III
- INFERRED DIRECTION OF GROUNDWATER MIGRATION
- DATA POINT NOT USED CONTOURING
- (11.13) AUGUST 2005 GROUNDWATER ELEVATION IN FEET NGVD
- 13 AUGUST 2005 GROUNDWATER ISOELEVATION CONTOUR
- ACTIVE SVE/AS WELLS
- DE-ACTIVATED SVE/AS WELLS

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MARINE CORPS BASE, CAMP LEJEUNE, N.C.

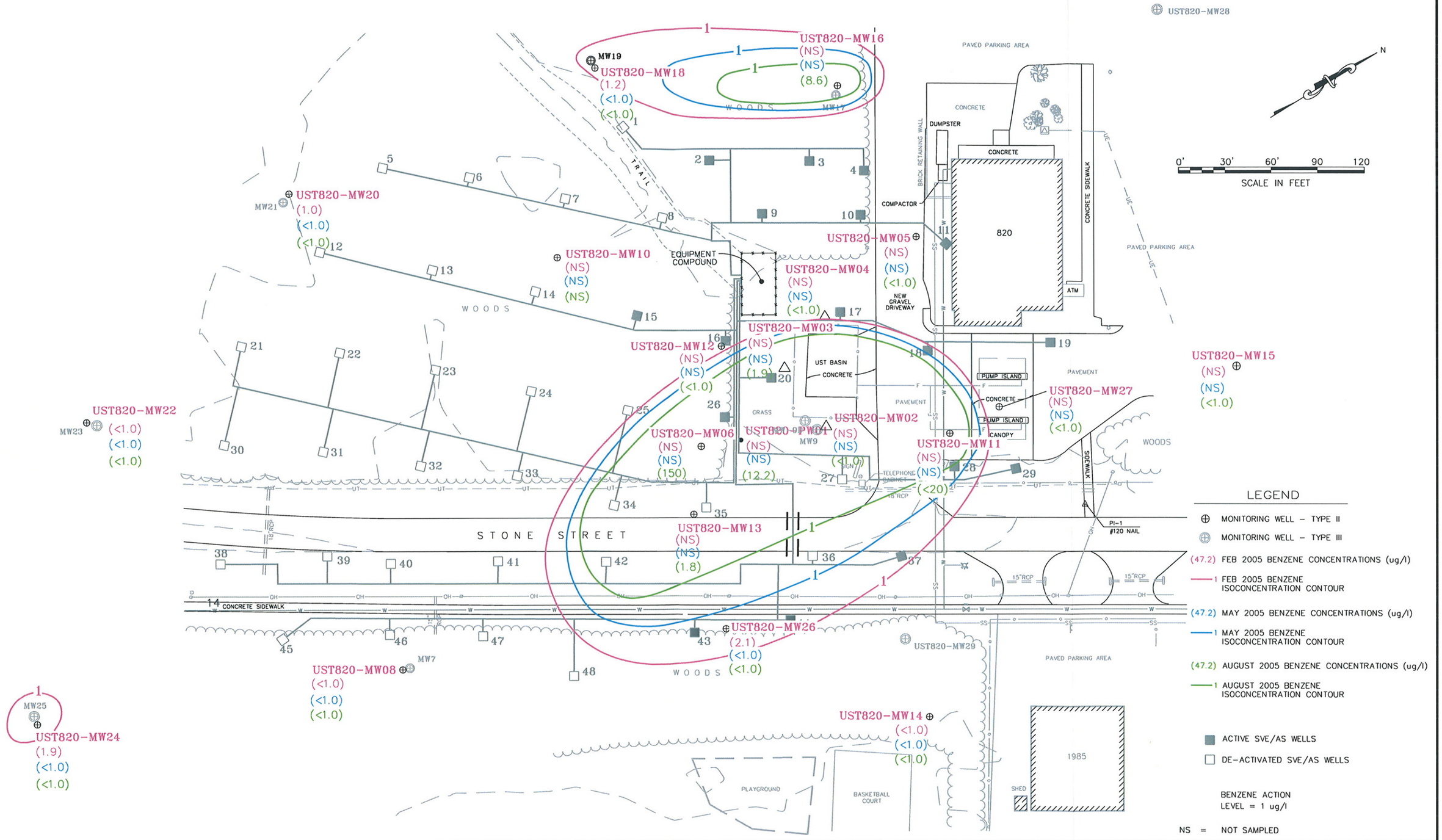
FIGURE 4.2
ANNUAL REPORT 2005
GROUNDWATER ELEVATION CONTOUR MAP
TYPE III WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 2/15/06

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Plotted By: angela.morgan
Xref
Image



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Plotted By: Angela.N.Morgan
Xref :
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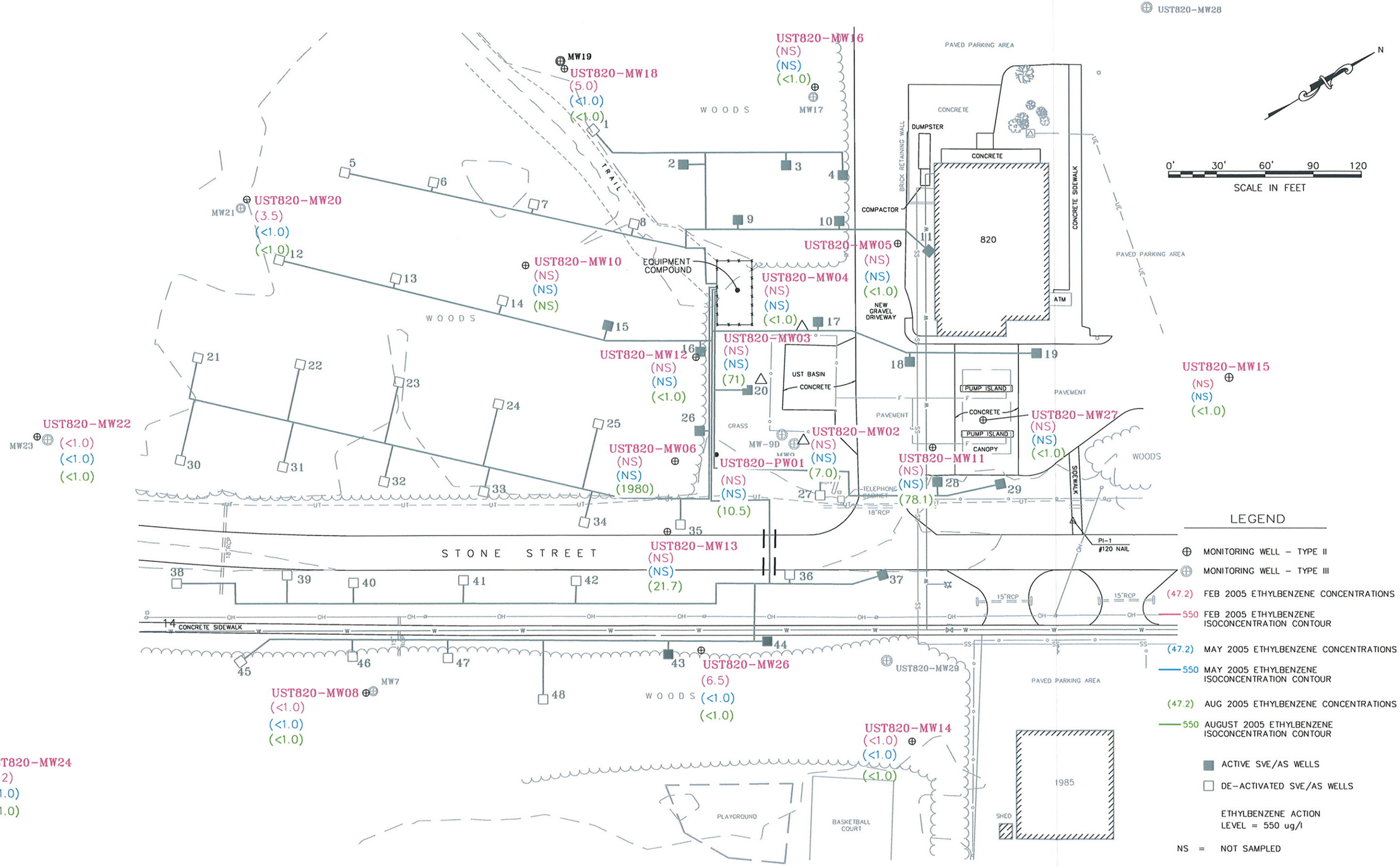
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FIGURE 4.3
ANNUAL REPORT 2005
BENZENE CONCENTRATIONS IN GROUNDWATER
TYPE II WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.
SHEET NUMBER: of
DATE: 2/15/06



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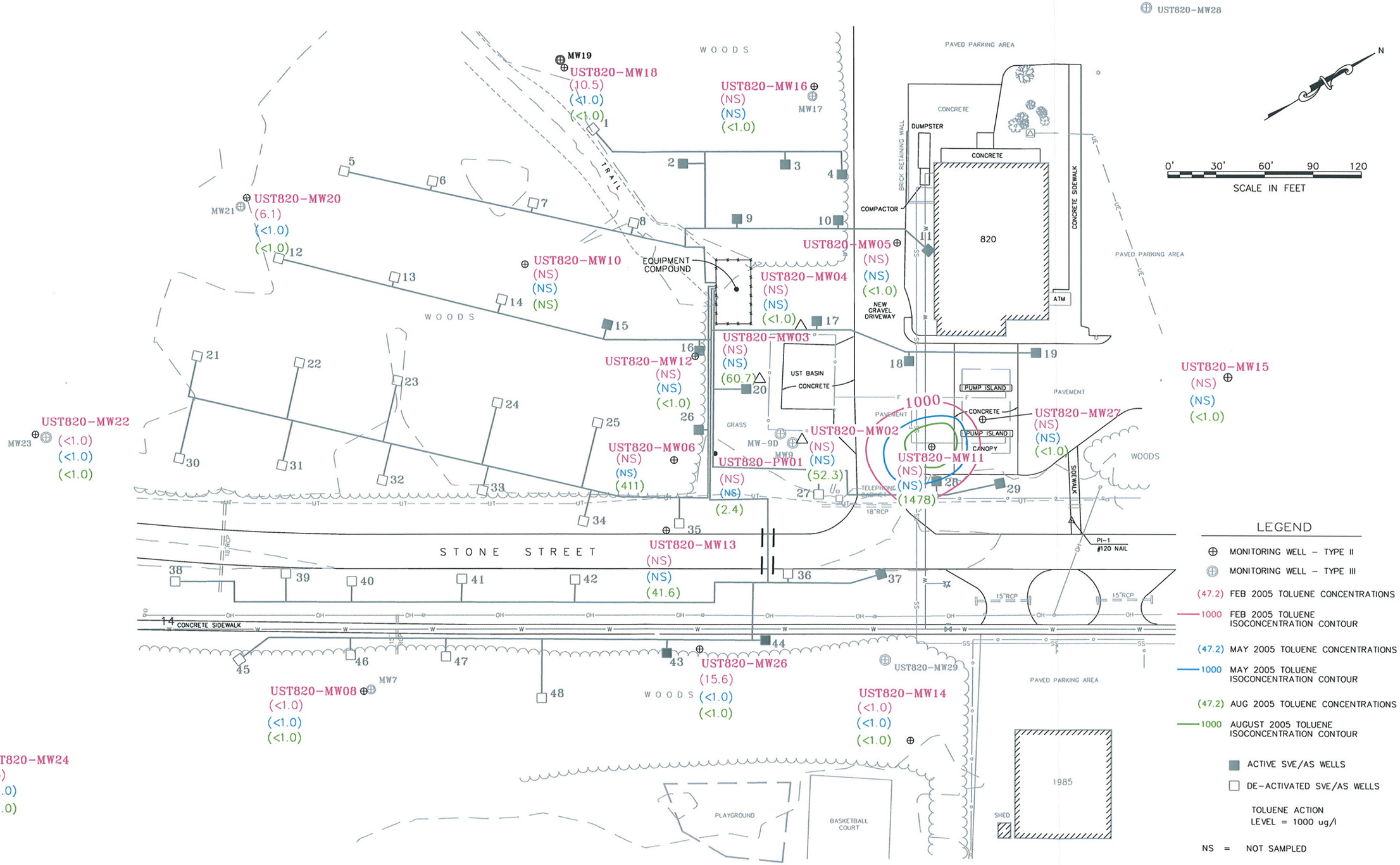
MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.4
ANNUAL REPORT 2005
ETHYLBENZENE CONCENTRATIONS IN GROUNDWATER
TYPE II WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 2/15/06



File: J:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\2005 AMR\FIG-4-5-2005.dwg
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Xref :
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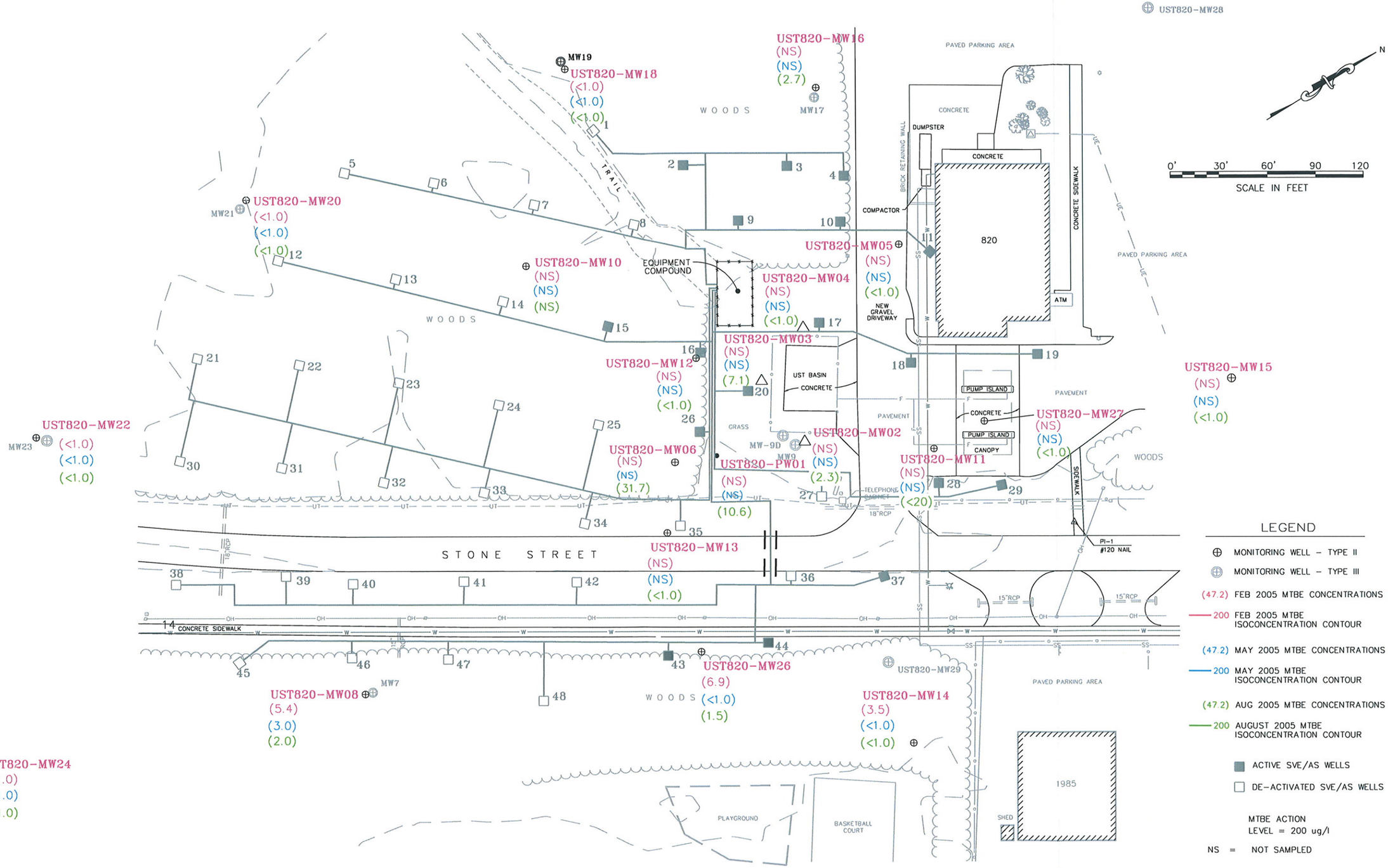
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FIGURE 4.5
ANNUAL REPORT 2005
TOLUENE CONCENTRATIONS IN GROUNDWATER TYPE II WELLS BERKELEY MANOR 820

NAVFAC DRAWING NO.
SHEET NUMBER: of
DATE: 2/15/06



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Plot Date/Time: Mar 02, 2006 - 3:57pm
Plotted By: Angela.N.Morgan
Xref :
Image :

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APPROVED: _____ DEPT. MANAGER _____ DATE: _____

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ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

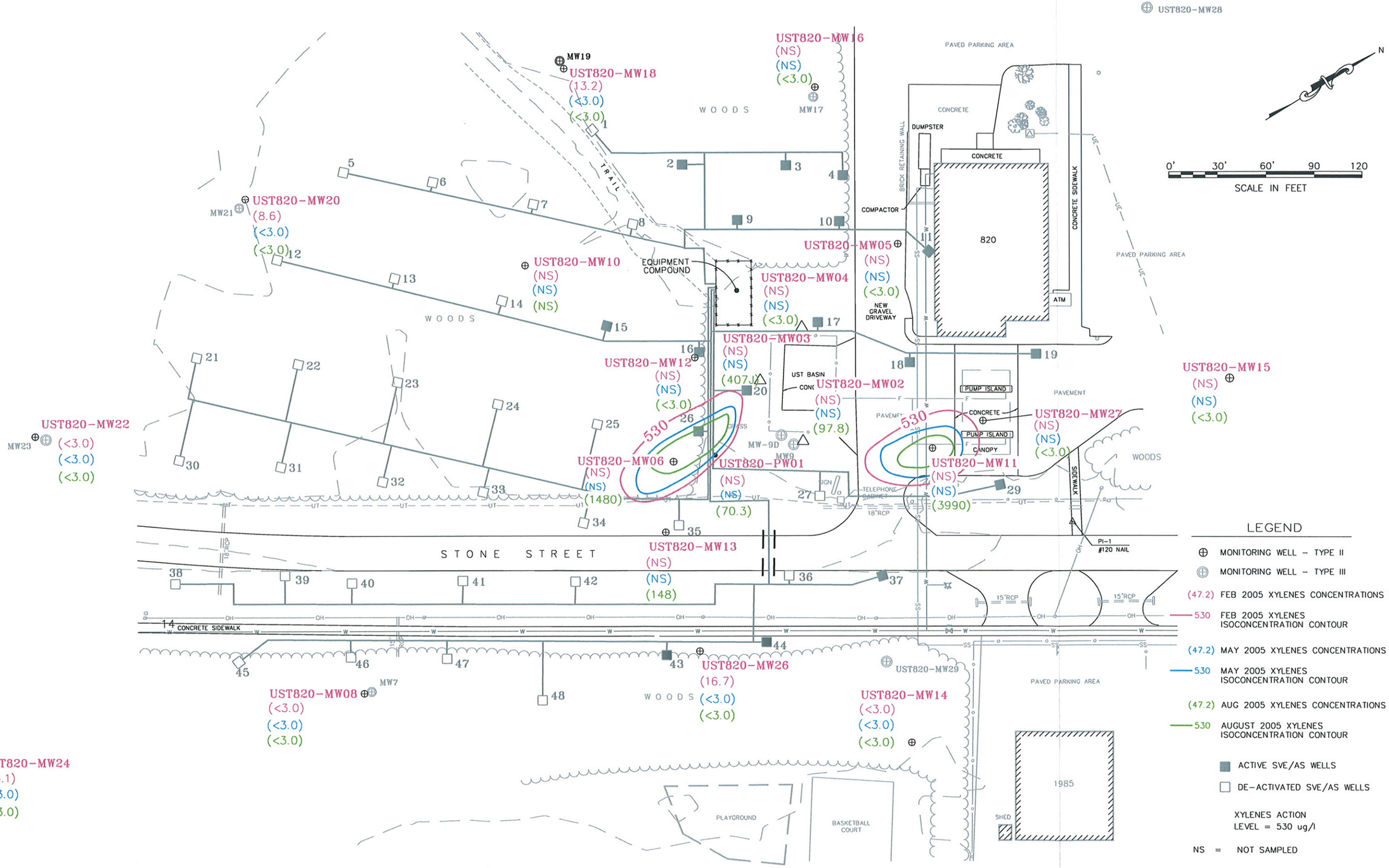
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FIGURE 4.6
ANNUAL REPORT 2005
MTBE CONCENTRATIONS IN GROUNDWATER
TYPE II WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 2/15/06



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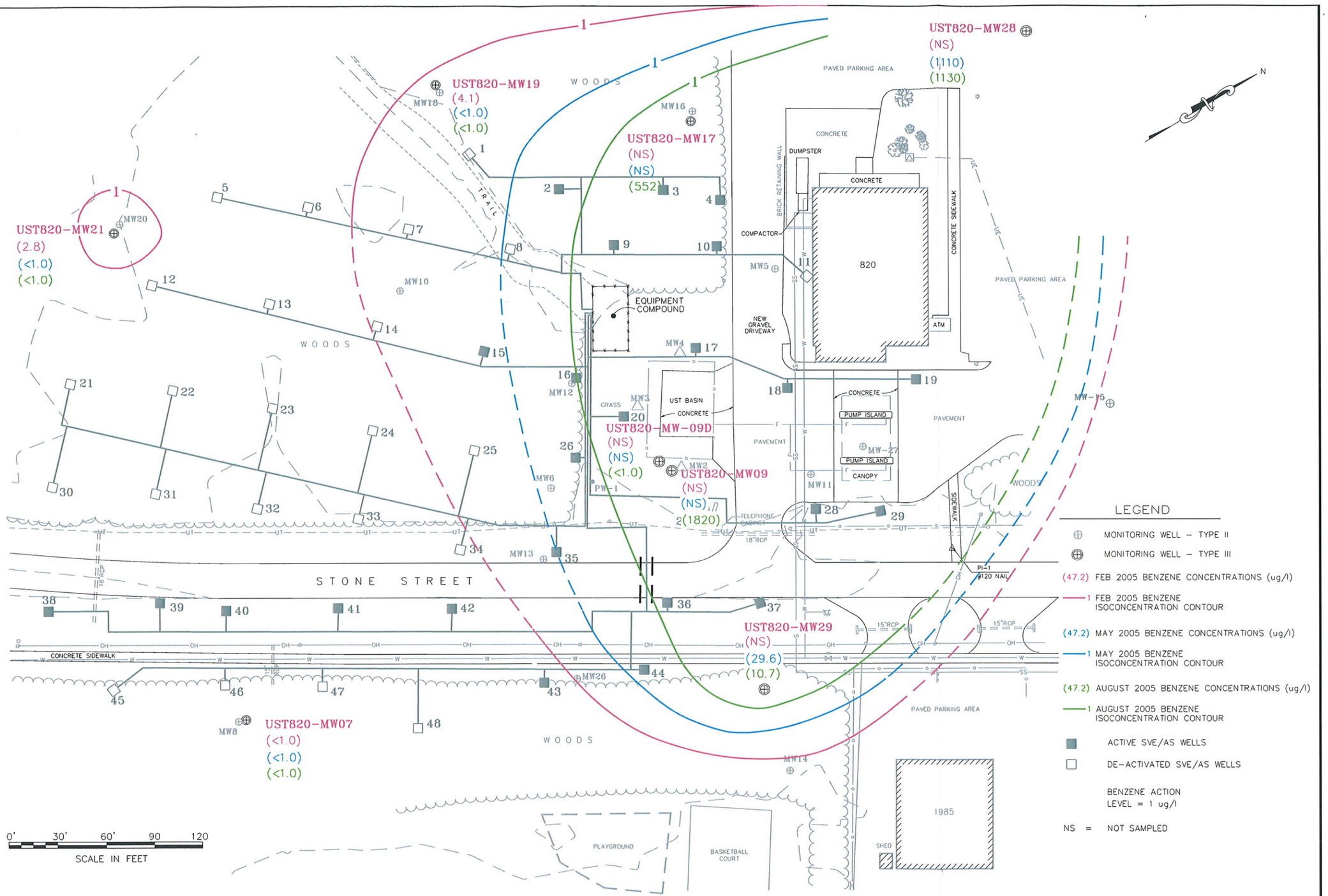
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

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FIGURE 4.7
ANNUAL REPORT 2005
XYLENES CONCENTRATIONS IN GROUNDWATER
TYPE II WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.
SHEET NUMBER: of
DATE: 2/15/06

File: J:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\2005 AMR\FIG-4-7-2005.dwg
Plot Date/Time: Mar 02, 2006 - 3:58pm
Plotted By: Angela.N.Morgan
Xref:
Image:



LEGEND

- ⊕ MONITORING WELL – TYPE II
- ⊕ MONITORING WELL – TYPE III
- (47.2) FEB 2005 BENZENE CONCENTRATIONS (ug/l)
- 1 FEB 2005 BENZENE ISOCONCENTRATION CONTOUR
- (47.2) MAY 2005 BENZENE CONCENTRATIONS (ug/l)
- 1 MAY 2005 BENZENE ISOCONCENTRATION CONTOUR
- (47.2) AUGUST 2005 BENZENE CONCENTRATIONS (ug/l)
- 1 AUGUST 2005 BENZENE ISOCONCENTRATION CONTOUR
- ■ ACTIVE SVE/AS WELLS
- □ DE-ACTIVATED SVE/AS WELLS

BENZENE ACTION LEVEL = 1 ug/l

NS = NOT SAMPLED

Shaw Environmental, Inc.

SUBMITTED: _____ PROJECT MANAGER: DATE: _____
APPROVED: _____ SR. PROJECT ENGINEER DATE: _____
APPROVED: _____ DEPT. MANAGER DATE: _____

CADD FILE: _____
DRAWN: J. LANGE
DESIGNED: B. BROWN
CHECKED: R. KENYON
CHECKED: _____

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

MARINE CORPS BASE, CAMP LEJEUNE, N.C.

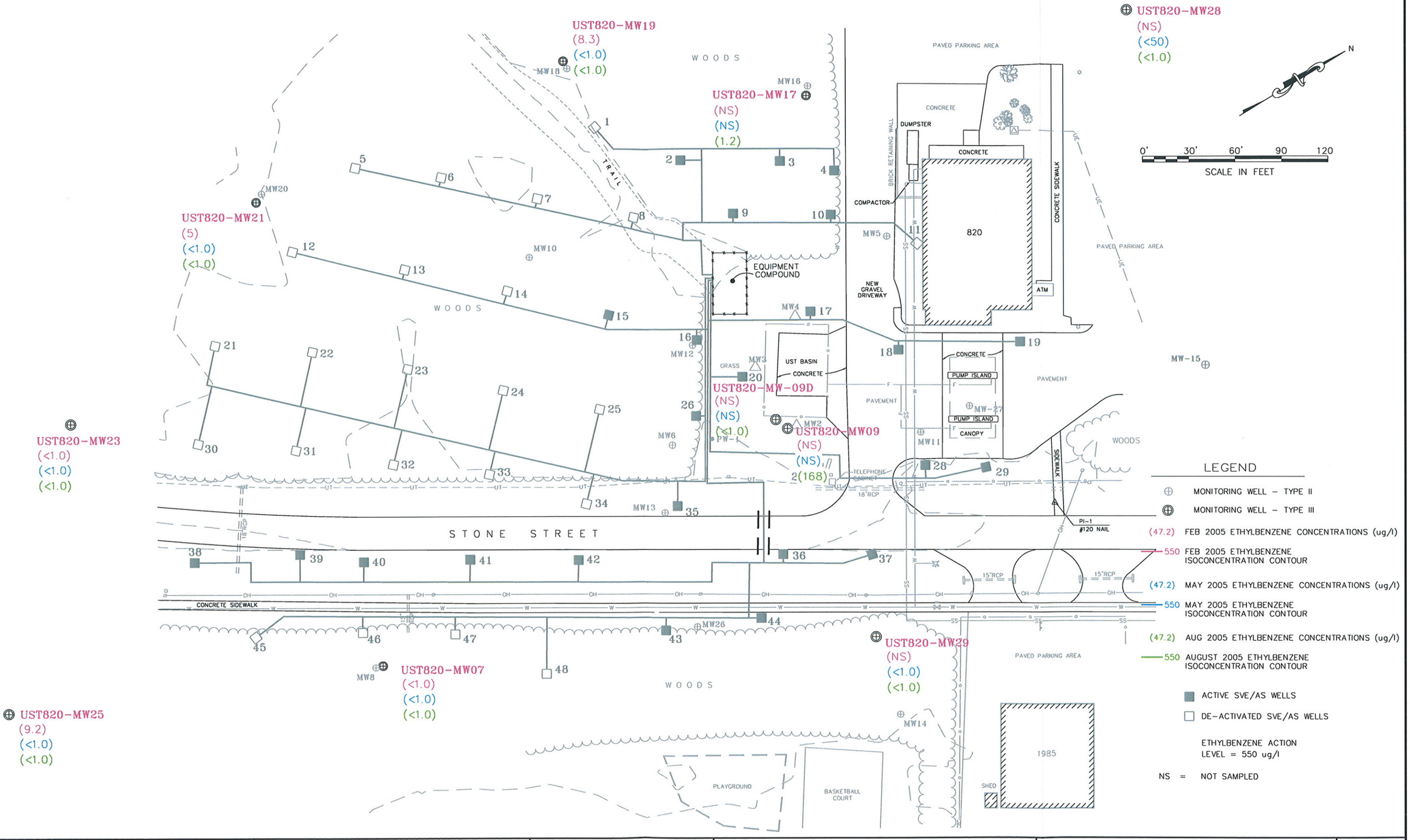
FIGURE 4.8
ANNUAL REPORT 2005
BENZENE CONCENTRATIONS IN GROUNDWATER
TYPE III WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 11/22/05

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Plot Date/Time: Jun 12, 2006 - 9:16am
Plotted By: angela.n.morgan
Xref :
Image :



File: J:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\2005 AMR\FIG-4-9-2005.dwg
Plot Date/Time: Mar 02, 2006 - 1:12pm
Plotted By: Angela.N.Morgan
Xref :
Image :

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APPROVED: _____ DEPT. MANAGER DATE: _____

CADD FILE: _____
DRAWN: J. LANGE
DESIGNED: B. BROWN
CHECKED: R. KENYON
CHECKED: _____

REVISIONS

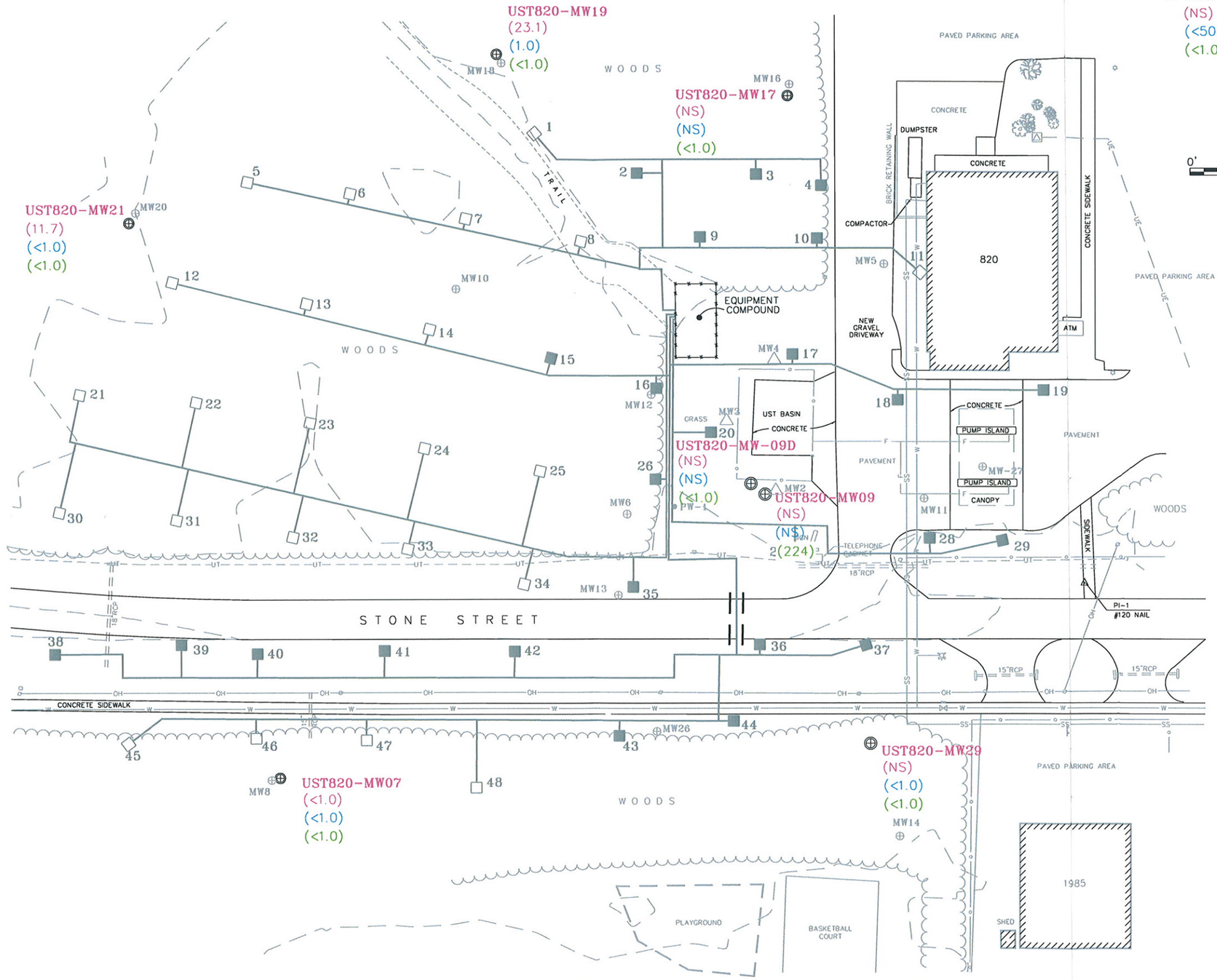
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

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ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA

MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.9
ANNUAL REPORT 2005
ETHYLBENZENE CONCENTRATIONS IN GROUNDWATER
TYPE III WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.
SHEET NUMBER: of
DATE: 11/22/05



LEGEND

- ⊕ MONITORING WELL – TYPE II
- ⊕ MONITORING WELL – TYPE III
- (1000) FEBRUARY 2005 TOLUENE CONCENTRATIONS IN GROUNDWATER
- 1000 FEBRUARY 2005 TOLUENE ISOCONCENTRATION CONTOUR
- (1000) MAY 2005 TOLUENE CONCENTRATIONS IN GROUNDWATER
- 1000 MAY 2005 TOLUENE ISOCONCENTRATION CONTOUR
- (1000) AUGUST 2005 TOLUENE CONCENTRATIONS IN GROUNDWATER
- 1000 AUGUST 2005 TOLUENE ISOCONCENTRATION CONTOUR
- ■ ACTIVE SVE/AS WELLS
- □ DE-ACTIVATED SVE/AS WELLS

TOLUENE ACTION LEVEL = 1000 ug/l

NS = NOT SAMPLED

Shaw
Shaw Environmental, Inc.

SUBMITTED: _____ PROJECT MANAGER: DATE: _____
APPROVED: _____ SR. PROJECT ENGINEER DATE: _____
APPROVED: _____ DEPT. MANAGER DATE: _____

CADD FILE: _____
DRAWN: J. LANGE
DESIGNED: B. BROWN
CHECKED: R. KENYON
CHECKED: _____

REVISIONS

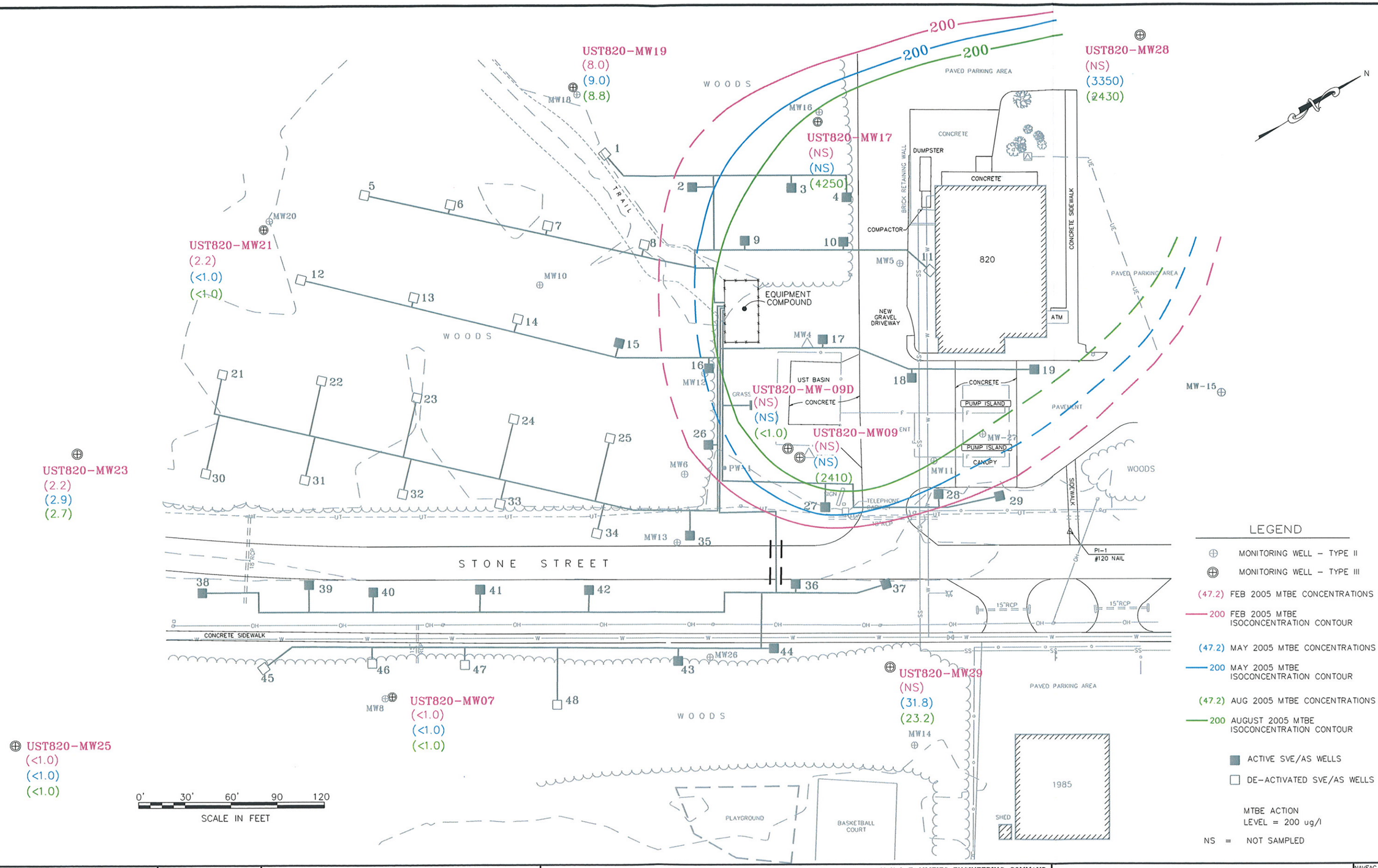
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.10
ANNUAL REPORT 2005
TOLUENE CONCENTRATIONS IN GROUNDWATER
TYPE III WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.
SHEET NUMBER: of
DATE: 2/15/06

File: J:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\2005 AMR\FIG-4-10-2005.dwg
Plot Date/Time: Mar 02, 2006 - 1:38pm
Plotted By: Angela.N.Morgan
Xref :
Image :



LEGEND

- MONITORING WELL – TYPE II
- MONITORING WELL – TYPE III
- (47.2) FEB 2005 MTBE CONCENTRATIONS (ug/l)
- 200 FEB 2005 MTBE ISOCONCENTRATION CONTOUR
- (47.2) MAY 2005 MTBE CONCENTRATIONS (ug/l)
- 200 MAY 2005 MTBE ISOCONCENTRATION CONTOUR
- (47.2) AUG 2005 MTBE CONCENTRATIONS (ug/l)
- 200 AUGUST 2005 MTBE ISOCONCENTRATION CONTOUR
- ACTIVE SVE/AS WELLS
- DE-ACTIVATED SVE/AS WELLS

MTBE ACTION LEVEL = 200 ug/l

NS = NOT SAMPLED

Shaw
Shaw Environmental, Inc.

SUBMITTED: _____ PROJECT MANAGER: DATE: _____
APPROVED: _____ SR. PROJECT ENGINEER DATE: _____
APPROVED: _____ DEPT. MANAGER DATE: _____

CADD FILE: _____
DRAWN: J. LANGE
DESIGNED: B. BROWN
CHECKED: R. KENYON
CHECKED: _____

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINA

MARINE CORPS BASE, CAMP LEJEUNE, N.C.

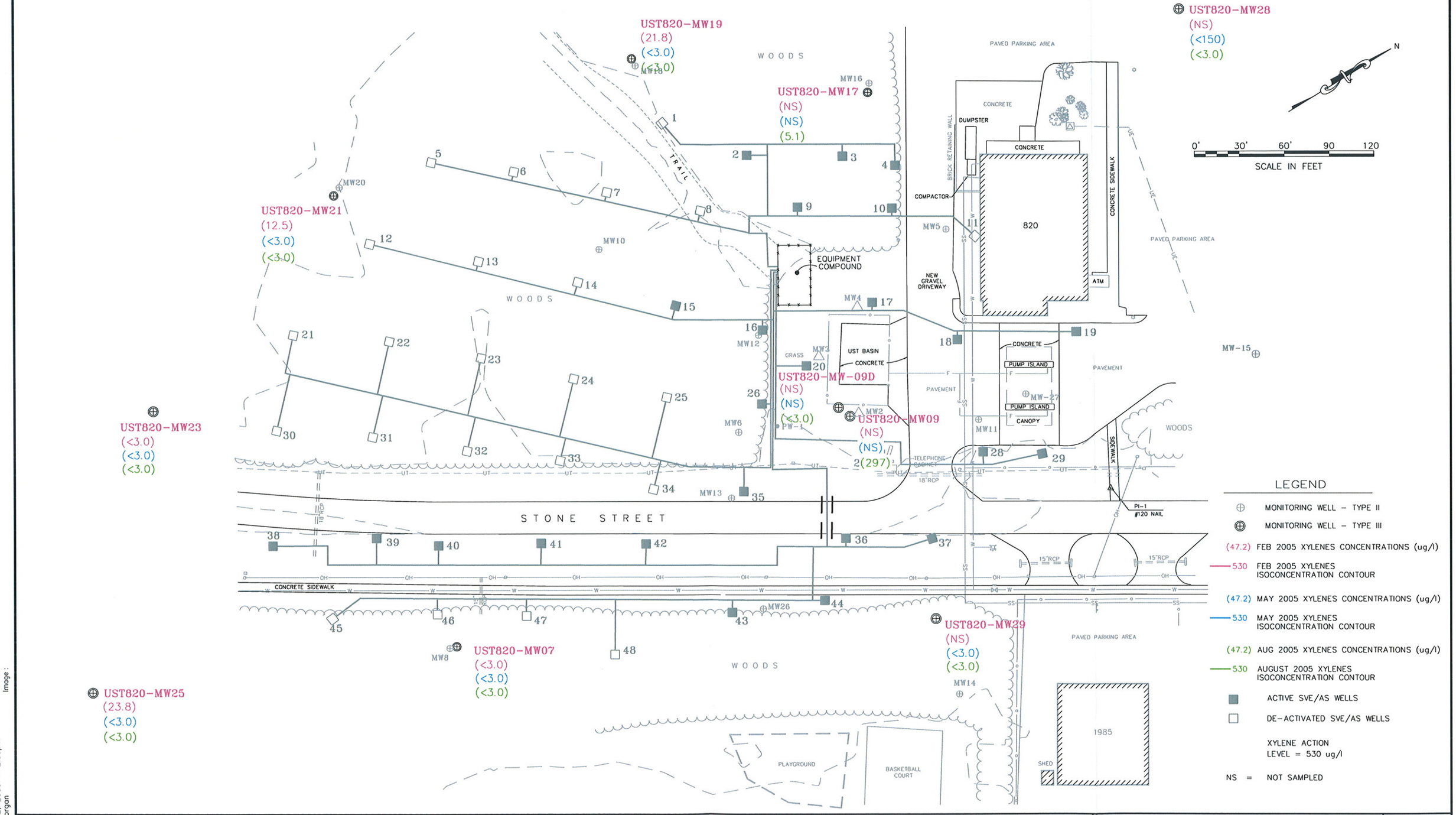
FIGURE 4.11
ANNUAL REPORT 2005
MTBE CONCENTRATIONS IN GROUNDWATER
TYPE III WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 2/15/06

File: X:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\2005 AMR\fig-4-11-2005.dwg
Plot Date/Time: Jun 12, 2006 - 9:20am
Plotted By: angelo.n.morgon
Xref : :
Image : :



LEGEND

- ⊕ MONITORING WELL – TYPE II
- ⊕ MONITORING WELL – TYPE III
- (47.2) FEB 2005 XYLENES CONCENTRATIONS (ug/l)
- 530 FEB 2005 XYLENES ISOCONCENTRATION CONTOUR
- (47.2) MAY 2005 XYLENES CONCENTRATIONS (ug/l)
- 530 MAY 2005 XYLENES ISOCONCENTRATION CONTOUR
- (47.2) AUG 2005 XYLENES CONCENTRATIONS (ug/l)
- 530 AUGUST 2005 XYLENES ISOCONCENTRATION CONTOUR
- ■ ACTIVE SVE/AS WELLS
- □ DE-ACTIVATED SVE/AS WELLS

XYLENE ACTION LEVEL = 530 ug/l

NS = NOT SAMPLED

Shaw
Shaw Environmental, Inc.

SUBMITTED: _____ PROJECT MANAGER: _____ DATE: _____
APPROVED: _____ SR. PROJECT ENGINEER _____ DATE: _____
APPROVED: _____ DEPT. MANAGER _____ DATE: _____

CADD FILE: _____
DRAWN: J. LANGE
DESIGNED: B. BROWN
CHECKED: R. KENYON
CHECKED: _____

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

MARINE CORPS BASE, CAMP LEJEUNE, N.C.

FIGURE 4.12
ANNUAL REPORT 2005
XYLENE CONCENTRATIONS IN GROUNDWATER
TYPE III WELLS
BERKELEY MANOR 820

NAVFAC DRAWING NO.

SHEET NUMBER: of

DATE: 2/15/06

File: J:\LEJEUNE-6-05\RAC_IV\BLDG_BM_820 OPERATION AND MAINT\2005 AMR\fig-4-12-2005.dwg
Plot Date/Time: Mar 02, 2006 - 2:53pm
Plotted By: Angela.N.Morgan
Xref :
Image :

TABLES

TABLE 2.1
MCB CAMP LEJEUNE
Site Rehabilitation Goals

MEDIUM	COMPONENTS	2002 CONDITIONS	2003 CONDITIONS	2004 CONDITIONS	2005 CONDITIONS	TARGET CLEANUP
Free Product	Gasoline/Diesel	No Free product observed in any well	No Free product observed in any well	No Free product observed in any well	No Free product observed in any well	≤1/8"
Vadose Zone Soil	TPH 3550/5030	TPH soil contamination was measured in November 1992 at levels that range from< 1 mg/kg to 2,700 mg/kg.	TPH soil contamination was measured in November 1992 at levels that range from< 1 mg/kg to 2,700 mg/kg.	TPH soil contamination was measured in November 1992 at levels that range from< 1 mg/kg to 2,700 mg/kg.	TPH soil contamination was measured in April 2005 at below NC Residential, Industrial, and SGMSCC requirements.	Residential or Soil-to-Groundwater (whichever is lower) MSCCs
Groundwater	Benzene Ethylbenzene Chlorobenzene Chrysene Naphthalene Toluene Xylenes (Total) MTBE	1,770 µg/l 481 µg/l <1 µg/l <5 µg/l 271 µg/l 2,900 µg/l 3,270 µg/l 4,200 µg/l	1,960 µg/l 155 µg/l <1 µg/l <5.1 µg/l 140 µg/l 416 µg/l 1,610 µg/l 4,110 µg/l	2,360 µg/l 1,400 µg/l <1 µg/l <4.8 µg/l 268 µg/l 722 µg/l 2,450 µg/l 3,930 µg/l	1,130 µg/l 1,980 µg/l <1 µg/l <4.8 µg/l 281 µg/l 1,478 µg/l 3,990 µg/l 4,250 µg/l	1 µg/l 550 µg/l 50 µg/l 4.79 µg/l 21 µg/l 1,000 µg/l 530 µg/l 200 µg/l

Note: SGMSCC – Soil to Groundwater Maximum Soil Contaminant Concentration Requirements

TABLE 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparging (AS) / Soil Vapor Extraction (SVE) System
MCB CAMP LEJEUNE - BM-820
SVE Stack

Date	Time	SVE Valve Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Pressure (" Hg)	Absolute Temperature (degrees Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
06/04/04	11:15	48361	1	8200	267.92	582	4045	0.005	1.9	20020.5	No data 6/11
06/18/04	11:15	48601	0	8600	267.92	598	4129	0.000	0.0	20030.1	
06/23/04	8:00	48720	2	8400	267.92	585	4123	0.011	3.9	20039.8	
07/07/04	12:30	49056	0	8700	268.92	608	4108	0.000	0.0	20067.3	No data 7/2
07/15/04	7:45	49147	0	8400	268.92	589	4095	0.000	0.0	20067.3	
07/21/04	9:45	49270	0	8800	268.92	591	4275	0.000	0.0	20067.3	
07/28/04	14:50	49443	0	9100	268.92	584	4474	0.000	0.0	20067.3	
08/06/04	10:15	49654	1	8700	269.92	573	4359	0.005	2.1	20076.4	
08/11/04	8:00	49772	0	8600	269.92	579	4265	0.000	0.0	20081.5	
08/18/04	11:30	49893	1	8900	269.92	589	4338	0.005	2.1	20086.7	
08/25/04	9:00	50058	0	5000	269.92	577	2488	0.000	0.0	20093.8	
09/02/04	12:00	50209	0	8800	270.92	581	4349	0.000	0.0	20093.8	
09/10/04	10:30	50403	0	8900	270.92	583	4383	0.000	0.0	20093.8	
09/16/04	9:30	50544	0	8800	270.92	573	4409	0.000	0.0	20093.8	
09/22/04	9:30	50688	1	8200	270.92	577	4080	0.005	1.9	20099.7	
09/29/04	12:00	50859	0	8400	270.92	589	4095	0.000	0.0	20106.6	
10/07/04	8:15	51046	1	8800	271.92	551	4586	0.005	2.2	20115.1	
10/13/04	10:35	51193	0	9100	271.92	575	4544	0.000	0.0	20121.8	
10/20/04	9:20	51360	0	8400	271.92	581	4151	0.000	0.0	20121.8	
10/27/04	9:05	51527	0	8700	271.92	567	4405	0.000	0.0	20121.8	
11/05/04	9:00	51738	1	8900	272.92	561	4555	0.005	2.2	20131.3	
11/10/04	9:05	51859	0	9100	272.92	565	4624	0.000	0.0	20136.8	
11/18/04	14:45	52054	2	8600	272.92	568	4347	0.011	4.1	20153.6	
12/16/04	9:25	52723	0	9500	273.92	551	4950	0.000	0.0	20211.2	
12/23/04	9:20	52892	2	8900	273.92	563	4539	0.011	4.3	20226.5	
01/09/05	8:30	53324	0	9200	274.92	548	4820	0.000	0.0	20265.3	
01/15/05	14:05	53449	0	8900	274.92	545	4689	0.000	0.0	20265.3	
01/19/05	15:50	53545	0	8600	274.92	542	4556	0.000	0.0	20265.3	
01/27/05	11:00	53732	0	9100	274.92	552	4733	0.000	0.0	20265.3	

TABLE 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparging (AS) / Soil Vapor Extraction (SVE) System
MCB CAMP LEJEUNE - BM-820
SVE Stack

Date	Time	SVE Valve Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Pressure (" Hg)	Absolute Temperature (degrees Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
02/04/05	8:05	53919	0	8900	275.92	537	4759	0.000	0.0	20265.3	
02/09/05	10:25	54043	0	8400	275.92	579	4165	0.000	0.0	20265.3	
02/17/05	14:00	54238	0	8800	275.92	553	4569	0.000	0.0	20265.3	
02/25/05	9:00	54425	0	8800	275.92	544	4645	0.000	0.0	20265.3	
03/03/05	8:05	54569	0	8900	276.92	552	4629	0.000	0.0	20265.3	
03/09/05	8:40	54713	0	8900	276.92	553	4621	0.000	0.0	20265.3	
03/18/05	8:40	54929	0	8900	276.92	548	4663	0.000	0.0	20265.3	
03/21/05	7:50	55000	0	8800	276.92	545	4636	0.000	0.0	20265.3	
03/29/05	9:15	55167	1	8900	276.92	561	4555	0.005	2.2	20272.9	
04/06/05	13:30	55363	0	8900	277.92	587	4353	0.000	0.0	20281.7	
04/14/05	10:12	55551	1	8600	277.92	555	4449	0.005	2.1	20290.0	
04/21/05	13:45	55722	2	9100	277.92	599	4362	0.011	4.2	20312.4	
04/29/05	13:51	55914	1	8400	277.92	588	4102	0.005	2.0	20336.8	
05/18/05	12:30	56366	2	8600	278.92	578	4272	0.011	4.1	20393.5	
05/26/05	9:00	56549	1	8400	278.92	581	4151	0.005	2.0	20416.5	
06/02/05	15:00	56695	0	8500	279.92	581	4200	0.000	0.0	20422.5	
06/09/05	9:30	56808	2	8100	279.92	581	4003	0.011	3.8	20431.5	
06/22/05	11:15	57115	1	8500	279.92	586	4165	0.005	2.0	20468.5	
06/30/05	9:10	57304	0	8400	279.92	578	4173	0.000	0.0	20476.3	
07/09/05	11:00	57367	0	8700	280.92	592	4219	0.000	0.0	20476.3	
07/16/05	11:20	57536	0	8300	280.92	595	4005	0.000	0.0	20476.3	
07/19/05	15:00	57613	2	8500	280.92	597	4088	0.011	3.9	20482.6	
07/29/05	16:05	57850	0	8700	280.92	591	4227	0.000	0.0	20501.8	

TABLE 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparging (AS) / Soil Vapor Extraction (SVE) System
MCB CAMP LEJEUNE - BM-820
SVE Stack

Date	Time	SVE Valve Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Pressure (" Hg)	Absolute Temperature (degrees Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
08/03/05	15:20	57919	1	8800	281.92	599	4218	0.005	2.0	20504.7	
08/11/05	14:05	58109	0	8800	281.92	601	4204	0.000	0.0	20512.6	
08/18/05	9:43	58273	0	8600	281.92	598	4129	0.000	0.0	20512.6	
08/24/05	15:20	58401	2	8500	281.92	591	4129	0.011	3.9	20523.1	
09/02/05	13:45	58591	1	8600	282.92	589	4192	0.005	2.0	20546.5	
09/08/05	8:45	58730	2	8500	282.92	584	4179	0.011	4.0	20563.8	
09/16/05	12:10	58775	0	8400	282.92	591	4081	0.000	0.0	20567.6	
09/22/05	11:30	58918	0	8500	282.92	592	4122	0.000	0.0	20567.6	
09/30/05	9:30	59107	0	7700	282.92	578	3825	0.000	0.0	20567.6	
10/06/05	17:15	59259	0	7800	283.92	583	3841	0.000	0.0	20567.6	
10/13/05	14:30	59426	0	8000	283.92	579	3967	0.000	0.0	20567.6	
10/21/05	11:40	59612	0	7800	283.92	592	3783	0.000	0.0	20567.6	
10/29/05	9:25	59803	0	7600	283.92	566	3855	0.000	0.0	20567.6	
11/04/05	14:45	59955	0	7800	284.92	569	3936	0.000	0.0	20567.6	
11/10/05	11:25	60093	1	8100	284.92	582	3996	0.005	1.9	20573.0	
11/17/05	11:00	60262	0	8100	284.92	567	4102	0.000	0.0	20579.7	
11/23/05	16:20	60406	1	7800	284.92	556	4028	0.005	1.9	20585.5	
12/02/05	12:20	60604	0	7600	285.92	545	4004	0.000	0.0	20593.4	
12/07/05	9:30	60720	0	7700	285.92	533	4148	0.000	0.0	20593.4	
12/16/05	10:45	60940	1	7600	285.92	545	4004	0.005	1.9	20602.1	
12/23/05	11:00	61107	0	7800	285.92	536	4178	0.000	0.0	20608.8	
12/29/05	14:30	61254	0	7500	285.92	551	3908	0.000	0.0	20608.8	
12/31/05	14:30	61302	0	7640	285.92	542	4047	0.001	0.4	20609.1	Extrapolated Data

Notes:

$C = (PPM_{measured}) \times K \times (M_g/K_g) / 1000$

C: vapor concentration (mg/l)

$PPM_{measured}$: FID reading (PPM)

K: number of carbon atoms in calibration gas (1 in methane)

TH: total hydrocarbons calculated as gasoline (GRO)

$Q = (1-B) \times V \times A \times (P/P_{std}) \times (T_{std}/T)$

Q: vapor flowrate (SCFM)

B: percent water vapor in flowstream

V: vapor velocity (ft/min)

A: cross-sectional area (sq. ft)

P: absolute pressure of flowstream (" Hg)

P_{std}: standard pressure (29.92" Hg)

T: absolute temperature of flowstream (degrees Rankine)

T_{std}: standard temperature (528 degrees Rankine) at 68 degrees F (from Perry's handbook)

$M = Q \times C \times 0.0895$

M: hydrocarbon recovery rate (lb/day)

Assumptions:

Mg = 128 mg/mg-mole

Kg = 24.07 dsm^3/10^6 gm -mole

B = 0.003 from Perry's Chemical Handbook

A = 0.545 sq. ft

percent water vapor by volume	0.003
SVE Stack pipe diameter	10

* Estimated value due to malfunctionng instrument

TABLE 3.2

Cumulative Mass of Hydrocarbons Recovered

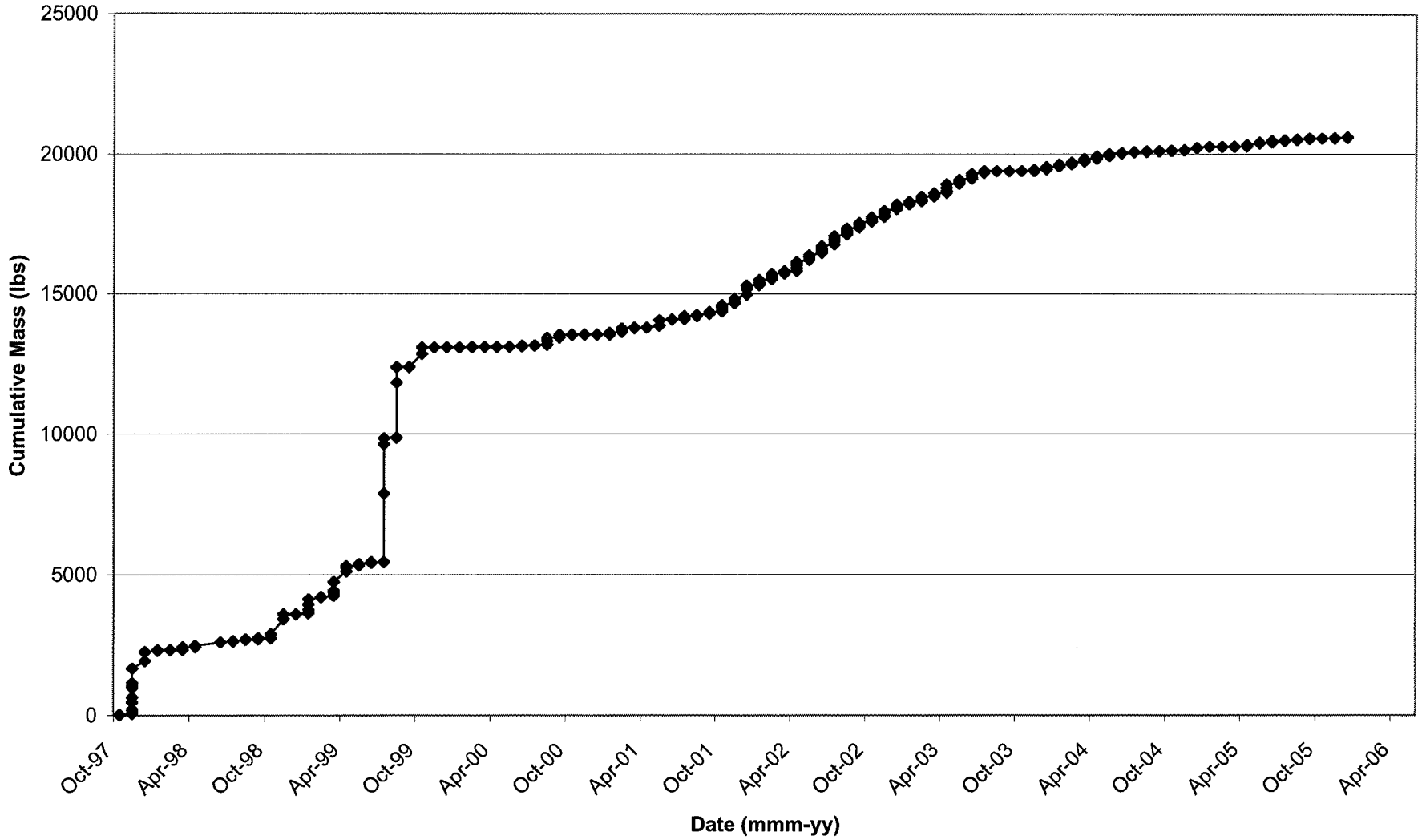


Table 4.1
Groundwater Elevation Table
Building 820
Camp LeJeune, North Carolina

Well No.	Well Type (depth)	Top of Casing	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)
UST820-MW02	shallow	32.88	Feb-05	NM	---	May-05	NM	---	Aug-05	14.45	**18.43**
UST820-MW03	shallow	32.79	Feb-05	NM	---	May-05	NM	---	Aug-05	14.63	**18.16**
UST820-MW04	shallow	33.35	Feb-05	NM	---	May-05	NM	---	Aug-05	14.62	**18.73**
UST820-MW05	shallow	30.32	Feb-05	NM	---	May-05	NM	---	Aug-05	11.38	**18.94**
UST820-MW06	shallow	32.04	Feb-05	NM	---	May-05	NM	---	Aug-05	15.20	**16.84**
UST820-MW08	shallow	27.17	Feb-05	12.98	**14.19**	May-05	12.87	**14.30**	Aug-05	13.62	**13.55**
UST820-MW10	shallow	32.62	Feb-05	NM	---	May-05	NM	---	Aug-05	NM	---
UST820-MW11	shallow	29.29	Feb-05	NM	---	May-05	NM	---	Aug-05	10.58	**18.71**
UST820-MW12	shallow	31.73	Feb-05	NM	---	May-05	NM	---	Aug-05	14.21	**17.52**
UST820-MW13	shallow	29.15	Feb-05	NM	---	May-05	NM	---	Aug-05	13.35	**15.80**
UST820-MW14	shallow	31.48	Feb-05	14.26	**17.22**	May-05	14.12	**17.36**	Aug-05	13.75	**17.73**
UST820-MW15	shallow	30.18	Feb-05	NM	---	May-05	NM	---	Aug-05	10.36	**19.82**
UST820-MW16	shallow	32.24	Feb-05	NM	---	May-05	NM	---	Aug-05	13.29	**18.95**
UST820-MW18	shallow	31.70	Feb-05	13.01	**18.69**	May-05	12.11	**19.59**	Aug-05	13.69	**18.01**
UST820-MW20	shallow	31.63	Feb-05	14.05	**17.58**	May-05	14.37	**17.26**	Aug-05	15.55	**16.08**
UST820-MW22	shallow	31.45	Feb-05	16.36	**15.09**	May-05	NM	---	Aug-05	13.69	**17.76**
UST820-MW24	shallow	29.66	Feb-05	16.00	**13.66**	May-05	15.12	**14.54**	Aug-05	16.19	**13.47**
UST820-MW26	shallow	28.72	Feb-05	12.12	**16.60**	May-05	11.96	**16.76**	Aug-05	12.00	**16.72**
UST820-MW27	shallow	30.07	Feb-05	NM	---	May-05	NM	---	Aug-05	11.30	**18.77**
UST820-MW7	deep	27.18	Feb-05	11.85	**15.33**	May-05	12.16	**15.02**	Aug-05	12.72	**14.46**
UST820-MW9	deep	31.95	Feb-05	NM	---	May-05	NM	---	Aug-05	18.81	**13.14**
UST820-MW9D	deep	32.54	Feb-05	NM	---	May-05	NM	---	Aug-05	20.90	**11.64**
UST820-MW17	deep	32.58	Feb-05	NM	---	May-05	NM	---	Aug-05	19.81	**12.77**
UST820-MW19	deep	31.73	Feb-05	19.03	**12.70**	May-05	18.36	**13.37**	Aug-05	18.95	**12.78**
UST820-MW21	deep	31.80	Feb-05	18.40	**13.40**	May-05	17.96	**13.84**	Aug-05	18.80	**13.00**
UST820-MW23	deep	31.20	Feb-05	16.37	**14.83**	May-05	NM	---	Aug-05	17.83	**13.37**
UST820-MW25	deep	28.51	Feb-05	15.32	**13.19**	May-05	14.16	**14.35**	Aug-05	15.51	**13.00**
UST820-MW28	deep	28.85	Feb-05	NM	---	May-05	NM	---	Aug-05	16.21	**12.64**
UST820-MW29	deep	26.17	Feb-05	NM	---	May-05	NM	---	Aug-05	13.75	**12.42**

** NGVD = National Geodetic Vertical Datum

Measurement not used due to suspected equipment or operator error

Table 4.1
Groundwater Elevation Table
Building 820
Camp Lejeune, North Carolina

Well No.	Well Type (depth)	Top of Casing	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)
MW-4	shallow	33.35	16.74	16.61	Apr-02	18.88	14.47	Oct-02	18.08	15.27	Apr-03	13.64	19.71	Oct-03	14.53	18.82	Apr-04	11.54	21.81	Nov-04	13.19	20.16
MW-5	shallow	30.32	DRY	DRY	Apr-02	Dry	NM	Oct-02	Dry	NM	Apr-03	10.76	19.56	Oct-03	11.08	19.24	Apr-04	7.87	22.45	Nov-04	10.60	19.72
MW-6	shallow	32.04	NM	NM	Apr-02	NM	NM	Oct-02	NM	NM	Apr-03	NM	NM	Oct-03	NM	NM	Apr-04	NM	NM	Nov-04	12.61	19.43
MW-8	shallow	27.17	15.93	11.24	Apr-02	18.08	9.09	Oct-02	17.42	9.75	Apr-03	---	---	Oct-03	14.37	12.80	Apr-04	11.15	16.02	Nov-04	12.98	14.19
MW-10	shallow	32.62	16.12	16.50	Apr-02	16.23	16.39	Oct-02	15.42	17.20	Apr-03	12.13	20.49	Oct-03	NM	NM	Apr-04	10.55	22.07	Nov-04	surging	---
MW-11	shallow	29.29	13.74	15.55	Apr-02	14.81	14.48	Oct-02	14.26	15.03	Apr-03	9.04	20.25	Oct-03	10.3	18.99	Apr-04	7.65	21.64	Nov-04	9.91	19.38
MW-12	shallow	31.73	15.82	15.91	Apr-02	18.08	13.65	Oct-02	17.39	14.34	Apr-03	14.02	17.71	Oct-03	14.05	17.68	Apr-04	11.05	20.68	Nov-04	12.39	19.34
MW-13	shallow	29.15	13.85	15.30	Apr-02	16.86	12.29	Oct-02	16.21	12.94	Apr-03	12.79	16.36	Oct-03	12.48	16.67	Apr-04	9.66	19.49	Nov-04	10.54	18.61
MW-14	shallow	31.48	16.75	14.73	Apr-02	16.1	15.38	Oct-02	15.38	16.10	Apr-03	14.99	16.49	Oct-03	14.98	16.50	Apr-04	12.51	18.97	Nov-04	14.26	17.22
MW-15	shallow	30.18	13.25	16.93	Apr-02	15.04	15.14	Oct-02	14.41	15.77	Apr-03	10.36	19.82	Oct-03	10.71	19.47	Apr-04	7.54	22.64	Nov-04	9.21	20.97
MW-16	shallow	32.24	15.4	16.84	Apr-02	17.19	15.05	Oct-02	16.36	15.88	Apr-03	12.17	20.07	Oct-03	12.75	19.49	Apr-04	9.32	22.92	Nov-04	11.06	21.18
MW-18	shallow	31.70	15.63	16.07	Apr-02	NM	NM	Oct-02	NM	NM	Apr-03	NM	NM	Oct-03	NM	NM	Apr-04	9.41	22.29	Nov-04	11.16	20.54
MW-20	shallow	31.63	16.66	14.97	Apr-02	NM	NM	Oct-02	NM	NM	Apr-03	NM	NM	Oct-03	NM	NM	Apr-04	12.18	19.45	Nov-04	14.05	17.58
MW-26	shallow	28.72	12.79	15.93	Apr-02	15.99	12.73	Oct-02	15.12	13.60	Apr-03	12.15	16.57	Oct-03	13.72	15.00	Apr-04	10.34	18.38	Nov-04	12.06	16.66
MW-27	shallow	30.07	13.44	16.63	Apr-02	Dry	NM	Oct-02	Dry	NM	Apr-03	11.15	18.92	Oct-03	11.05	19.02	Apr-04	8.21	21.86	Nov-04	10.55	19.52
MW-7	deep	27.18	14.6	12.58	Apr-02	17.23	9.95	Oct-02	16.49	10.69	Apr-03	---	---	Oct-03	13.6	13.58	Apr-04	10.04	17.14	Nov-04	11.85	15.33
MW-9	deep	31.95	19.33	12.62	Apr-02	22.78	9.17	Oct-02	22.68	9.27	Apr-03	19.49	12.46	Oct-03	19.49	12.46	Apr-04	16.79	15.16	Nov-04	16.76	15.19
MW-9D	deep	32.54	21.91	10.63	Apr-02	23.93	8.61	Oct-02	23.75	NM	Apr-03	20.65	11.89	Oct-03	19.98	12.56	Apr-04	17.54	15.00	Nov-04	17.57	14.97
MW-17	deep	32.58	21.23	11.35	Apr-02	24.6	7.98	Oct-02	23.65	8.93	Apr-03	---	---	Oct-03	20.46	12.12	Apr-04	17.72	14.86	Nov-04	19.61	12.97
MW-19	deep	31.73	19.26	12.47	Apr-02	22.89	8.84	Oct-02	---	---	Apr-03	20.12	11.61	Oct-03	19.91	11.82	Apr-04	---	---	Nov-04	19.04	12.69
MW-21	deep	31.80	20.5	11.30	Apr-02	22.84	8.96	Oct-02	22.22	9.58	Apr-03	19.91	11.89	Oct-03	19.5	12.30	Apr-04	16.60	15.20	Nov-04	18.40	13.40

* BTC = Below Top of Casing

** NGVD = National Geodetic Vertical Datum

Measurement not used due to suspected equipment or operator error

Table 4.2
Analytical Data Summary
B-820 Year 8 Quarterly 1
February 2005 Shallow

Client Sample ID:		UST820-MW08	UST820-MW14	UST820-MW18	UST820-MW20	UST820-MW22	UST820-MW24	UST820-MW26
Well ID:		MW-8	MW-14	MW-18	MW-20	MW-22	MW-24	MW-26
Lab ID:		F30111-2	F30111-3	F30069-5	F30111-4	F30111-6	F30069-2	F30069-3
Date Sampled:		03/01/05	03/01/05	2/26/05	3/1/05	3/1/05	2/26/05	2/26/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	<1.0	<1.0	**1.2**	**1.0**	<1.0	**1.9**	**2.1**
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**5.4**	**3.5**	<1.0	<1.0	<1.0	<1.0	**6.9**
Ethylbenzene	550	<1.0	<1.0	**5.0**	**3.5**	<1.0	**6.2**	**6.5**
Xylenes (total)	530	<3.0	<3.0	**13.2**	**8.6**	<3.0	**16.1**	**16.7**
Toluene	1000	<1.0	<1.0	**10.5**	**6.1**	<1.0	**15**	**15.6**
Total BTEX				**29.9**	**19.2**		**39.2**	**40.9**
EPA 625								
Chrysene	4.79	<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	**0.97 J**	**1.0 J**
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
Benzo(a)anthracene	0.0479	<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
Fluorene	280	<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
Fluoranthene	280	<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
SW846-6010B								
Lead	15	<5.0	<5.0	<100	<5.0	<5.0	**5.9**	**9.6**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standard (GWQS).						

J= estimated
NA= not analyzed

Printed: 6/7/2006
Samples analyzed by Accutest

Table 4.3
Analytical Data Summary
B-820 Year 8 Quarterly 1
February 2005 Deep

Client Sample ID:		UST820-MW07	UST820-MW19	UST820-MW21	UST820-MW23	UST820-MW25
Well ID:		MW-7	MW-19	MW-21	MW-23	MW-25
Lab ID:		F30111-1	F30069-4	F30111-5	F30111-7	F30069-1
Date Sampled:		3/1/05	2/26/05	3/1/05	3/1/05	2/26/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602						
Benzene	1	<1.0	**4.1**	**2.8**	<1.0	**4.2**
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	**8.0**	**0.85 J**	**2.2**	<1.0
Ethylbenzene	550	<1.0	**8.3**	**5**	<1.0	**9.2**
Xylenes (total)	530	<3.0	**21.8**	**12.5**	<3.0	**23.8**
Toluene	1000	<1.0	**23.1**	**11.7**	<1.0	**26.2**
Total BTEX			**57.3**	**32**		**63.4**
EPA 625						
Chrysene	4.79	<4.8	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	**1.5 J**	<4.8	<4.8	**1.6 J**
Acenaphthene	80	<4.8	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<4.8	<4.8
SW846-6010B						
Lead	15	**5.9**	<5.0	<5.0	<5.0	<5.0
Bold type indicates detectable concentrations.						
Shaded area indicates detectable concentrations above the groundwater quality standard (GWQS).						

J= estimated
NA= not analyzed

Printed: 6/7/2006
Samples analyzed by Accutest

Table 4.4
Analytical Data Summary
B-820 Year 8 Quarterly 2
May 2005 Shallow

Client Sample ID:		UST820-MW08	UST820-MW14	UST820-MW18	UST820-MW20	UST820-MW22	UST820-MW24	UST820-MW26
Well ID:		MW-8	MW-14	MW-18	MW-20	MW-22	MW-24	MW-26
Lab ID:		F32238-6	F32238-5	F32238-2	F32238-4	F32238-10	F32196-2	F32196-3
Date Sampled:		05/31/05	05/31/05	5/31/05	5/31/05	5/31/05	5/27/05	5/27/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**3.0**	**0.6 J**	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	550	<1.0	<1.0	<1.0	<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
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX								
EPA 625								
Chrysene	4.79	<4.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	<4.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Acenaphthene	80	<4.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	<4.9	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
SW846-6010B								
Lead	15	**8.5**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standard (GWQS).						

J= estimated
NA= not analyzed

Printed: 6/7/2006
Samples analyzed by Accutest

Table 4.5
Analytical Data Summary
B-820 Year 8 Quarterly 2
May 2005 Deep

Client Sample ID:		UST820-MW07	UST820-MW19	UST820-MW21	UST820-MW23	UST820-MW25	UST820-MW28	UST820-MW29
Well ID:		MW-7	MW-19	MW-21	MW-23	MW-25	MW-28	MW-29
Lab ID:		F32238-7	F32238-1	F32238-3	F32238-9	F32196-1	F32144-1	F32144-2
Date Sampled:		5/31/05	5/31/05	5/31/05	5/31/05	5/27/05	5/25/05	5/25/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	<1.0	**0.75 J**	<1.0	<1.0	<1.0	**1110**	**29.6**
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<50	<1.0
Methyl tert-butyl ether	200	<1.0	**9.0**	**0.87 J**	**2.9**	**0.65 J**	**3350**	**31.8**
Ethylbenzene	550	<1.0	**0.6 J**	<1.0	<1.0	<1.0	<50	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<150	<3.0
Toluene	1000	<1.0	**1.0**	<1.0	<1.0	<1.0	<50	<1.0
Total BTEX			**2.35**				**1110**	**29.6**
EPA 625								
Chrysene	4.79	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Acenaphthene	80	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.0479	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
SW846-6010B								
Lead	15	**6.3**	**19.9**	<5.0	<5.0	<5.0	NA	NA
Bold type indicates detectable concentrations.								
Shaded area indicates detectable concentrations above the groundwater quality standard (GWQS).								

J= estimated
NA= not analyzed

Printed: 6/7/2006
Samples analyzed by Accutest

Table 4.6
Analytical Data Summary
B-820 Year 8 Quarterly 3
August 2005 Shallow

Client Sample ID:		UST820-MW02	UST820-MW3	UST820-MW04	UST820-MW05	UST820-MW06	UST820-MW08	UST820-MW11	UST820-MW12	UST820-MW13	UST820-MW14	UST820-MW15
Well ID:		MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	MW-11	MW-12	MW-13	MW-14	MW-15
Lab ID:		F33881-1	F33880-1	F33940-1	F33881-2	F33880-2	F33910-2	F33940-2	F33880-3	F33881-5	F33910-3	F33881-6
Date Sampled:		08/06/05	08/08/05	08/10/05	08/06/05	08/08/05	08/09/05	08/10/05	08/08/05	08/06/05	08/09/05	08/06/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602												
Benzene	1	<1.0	1.9	<1.0	<1.0	150	<1.0	<20	<1.0	1.8	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	**2.9**	<1.0	<20	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**2.3**	**7.1**	<1.0	<1.0	**31.7**	**2.0**	<20	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	550	**7.0**	**71**	<1.0	<1.0	1980	<1.0	**78.1**	<1.0	**21.7**	<1.0	<1.0
Xylenes (total)	530	**97.8**	**407 J**	<3.0	<3.0	1480	<3.0	3990	<3.0	**148**	<3.0	<3.0
Toluene	1000	**52.3**	**60.7**	<1.0	<1.0	**411**	<1.0	1478	<1.0	**41.6**	<1.0	<1.0
Total BTEX		**157.1**	**540.6**			**4021**		**5546.1**		**213.1**		
EPA 625												
Chrysene	4.79	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0
Naphthalene	21	**10.2**	**19.8**	<1.9	<1.9	281	<1.9	**179**	<1.9	**1.1 J**	<1.9	<2.0
Acenaphthene	80	<3.8	<3.8	<3.9	<3.9	<3.8	<3.8	<16	<3.8	<3.9	<3.8	<4.0
Acenaphthylene	210	<3.8	<3.8	<3.9	<3.9	<15	<3.8	<16	<3.8	<3.9	<3.8	<4.0
Benzo(a)anthracene	0.0479	<0.19	<0.19	<0.19	**0.078 J**	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2
Pyrene	210	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	**1.6 J**	<1.9	<1.9	<1.9	<2.0
Fluorene	280	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0
Anthracene	2100	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0
Fluoranthene	280	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	**1.6 J**	<1.9	<1.9	<1.9	<2.0
Phenanthrene	210	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0
SW846-6010B												
Lead	15	<5.0	<5.0	**9.5**	<5.0	<5.0	<5.0	<5.0	<5.0	**7.3**	<5.0	<5.0
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standard (GWQS).										

J= estimated
NA= not analyzed

Printed: 6/7/2006
Samples analyzed by Accutest

Table 4.6
Analytical Data Summary
B-820 Year 8 Quarterly 3
August 2005 Shallow

Client Sample ID:		UST820-MW16	UST820-MW18	UST820-MW20	UST820-MW22	UST820-MW24	UST820-MW26	UST820-MW27	UST820-PW01
Well ID:		MW-16	MW-18	MW-20	MW-22	MW-24	MW-26	MW-27	PW-1
Lab ID:		F33880-4	F33940-3	F33910-4	F33940-4	F33910-6	F33910-7	F33881-7	F33880-8
Date Sampled:		08/08/05	8/10/05	8/9/05	8/10/05	8/9/05	8/9/05	8/6/05	8/8/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602									
Benzene	1	**8.6**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**12.2**
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**2.7**	<1.0	**0.53 J**	<1.0	<1.0	**1.5**	<1.0	**10.6**
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**10.5**
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	**70.3**
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.4**
Total BTEX		**8.6**							**95.4**
EPA 625									
Chrysene	4.79	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9
Naphthalene	21	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	**1.2 J**
Acenaphthene	80	<3.8	<3.8	<3.9	<3.8	<3.8	<3.8	<3.9	<3.8
Acenaphthylene	210	<3.8	<3.8	<3.9	<3.8	<3.8	<3.8	<3.9	<3.8
Benzo(a)anthracene	0.0479	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2	<0.19
Pyrene	210	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9
Fluorene	280	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9
Anthracene	2100	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9
Fluoranthene	280	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9
Phenanthrene	210	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<2.0	<1.9
SW846-6010B									
Lead	15	**18.7**	<5.0	**6.1**	<5.0	**9.5**	**7.5**	<5.0	<5.0
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standard (GWQS).							

J= estimated
NA= not analyzed

Printed: 6/7/2006
Samples analyzed by Accutest

Table 4.7
Analytical Data Summary
B-820 Year 8 Quarterly 3
August 2005 Deep

Client Sample ID:		UST820-MW07	UST820-MW09	UST820-MW09D	UST820-MW17	UST820-MW19	UST820-MW21	UST820-MW23	UST820-MW25	UST820-MW28	UST820-MW29
Well ID:		MW-7	MW-9	MW-9Deep	MW-17	MW-19	MW-21	MW-23	MW-25	MW-28	MW-29
Lab ID:		F33910-1	F33881-3	F33881-4	F33880-5	F33880-6	F33910-5	F33940-5	F33880-7	F33910-8	F33910-9
Date Sampled:		8/9/05	8/6/05	8/6/05	8/8/05	8/8/05	8/9/05	8/10/05	8/8/05	8/9/05	8/9/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602											
Benzene	1	<1.0	**1820**	<1.0	**552**	<1.0	<1.0	<1.0	<1.0	**1130**	**10.7**
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	**2410**	<1.0	**4250**	**8.8**	**0.85 J**	**2.7**	<1.0	**2430**	**23.2**
Ethylbenzene	550	<1.0	**168**	<1.0	**1.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	**297**	<3.0	**5.1**	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	<1.0	**224**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX			**2509**		**558.3**					**1130**	**10.7**
EPA 625											
Chrysene	4.79	<1.9	<2.0	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Naphthalene	21	<1.9	**13.9**	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Acenaphthene	80	<3.8	<3.9	<3.8	<3.8	<3.8	<3.9	<3.8	<3.8	<3.8	<3.8
Acenaphthylene	210	<3.8	<3.9	<3.8	<3.8	<3.8	<3.9	<3.8	<3.8	<3.8	<3.8
Benzo(a)anthracene	0.0479	<0.19	<0.2	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Pyrene	210	<1.9	<2.0	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Fluorene	280	<1.9	<2.0	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Anthracene	2100	<1.9	<2.0	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Fluoranthene	280	<1.9	<2.0	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
Phenanthrene	210	<1.9	<2.0	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9
SW846-6010B											
Lead	15	**9.0**	<20	<5.0	<20	<100	<10	**8.2**	<5.0	<5.0	<50
Bold type indicates detectable concentrations.											
Shaded area indicates detectable concentrations above the groundwater quality standard (GWQS).											

J= estimated
NA= not analyzed

Printed: 6/7/2006
Samples analyzed by Accutest

Table 6.1
Building 820 Semi-Annual Schedule for Groundwater Sample Collection and Analysis

Analysis	Type II Shallow Monitoring Wells										
	UST820-MW02	UST820-MW03	UST820-MW04	UST820-MW05	UST820-MW06	UST820-MW08	UST820-MW10	UST820-MW11	UST820-MW12	UST820-MW13	UST820-MW14
Field Screening											
Temperature	X	X	X	X	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X	X	X	X	X
VOAs Method 602	X	X	X	X	X	X	X	X	X	X	X
PAHs Method 625	X	X	X	X	X	X	X	X	X	X	X
Lead Method 6010B	X	X	X	X	X	X	X	X	X	X	X

Analysis	Type II Shallow Monitoring Wells							
	UST820-MW15	UST820-MW16	UST820-MW18	UST820-MW20	UST820-MW22	UST820-MW24	UST820-MW26	UST820-MW27
Field Screening								
Temperature	X	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X	X
VOAs Method 602	X	X	X	X	X	X	X	X
PAHs Method 625	X	X	X	X	X	X	X	X
Lead Method 6010B	X	X	X	X	X	X	X	X

Analysis	Type III Deep Monitoring Wells									
	UST820-MW07	UST820-MW09	UST820-MW9D	UST820-MW17	UST820-MW19	UST820-MW21	UST820-MW23	UST820-MW25	UST820-MW28	UST820-MW29
Field Screening										
Temperature	X	X	X	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X	X	X	X
VOAs Method 602	X	X	X	X	X	X	X	X	X	X
PAHs Method 625	X	X	X	X	X	X	X	X	X	X
Lead Method 6010B	X	X	X	X	X	X	X	X	X	X

APPENDIX A
WATER SUPPLY WELL ANALYTICAL RESULTS

APPENDIX B
GROUNDWATER SAMPLE COLLECTION FIELD LOGS

Shaw
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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. MW-7
SAMPLE NO.UST820- MW07

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 3/1/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1515
PHONE: 910-451-2390	WEATHER: Sunny Windy 50's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.45	5.56	5.53	5.48			(STD)
Specific Conductivity	0.182	0.167	0.155	0.148			(m S/cm^c)
Turbidity (Turb.)	1316.9	1315.7	159.0	368.4			(NTU)
Dissolved Oxygen (DO)	4.06	3.47	2.84	2.44			(g/l)
Temperature (Temp)	17.16	17.10	17.34	17.57			(°C)
ORP	403.7	398.4	400.4	396.4			

Depth to Bottom	285.60	(In) (Minus)	Depth to Water	142.20	(In)	=	143.40	HT (in)
Depth to Bottom	23.80	(Ft) (Minus)	Depth to Water	11.85	(Ft)	=	11.95	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1
d/2 = 1

	BOTTOM	TOP	Layer Thickness	Multiply Together r^2	Multiply Together Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			143.40	1	3.14	450	.0043	1.9		5.8	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. MW-8
SAMPLE NO.UST820- MW08

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 8/1/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1430
PHONE: 910-451-2390	WEATHER: Sunny Wind 50's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	2.94	2.88	2.88	2.89			(STD)
Specific Conductivity	0.845	0.901	0.893	0.886			(m S/cm^c)
Turbidity (Turb.)	0.0	254.0	19.3	12.9			(NTU)
Dissolved Oxygen (DO)	3.43	2.51	2.11	1.99			(g/l)
Temperature (Temp)	18.27	19.23	19.44	19.56			(^{o}C)
ORP	507.6	503.1	493.0	490.4			

Depth to Bottom	590.4	(In) (Minus)	Depth to Water	155.76	(In)	=	434.64	HT (in)
Depth to Bottom	49.20	(Ft) (Minus)	Depth to Water	12.98	(Ft)	=	36.22	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1
d/2 = 1

	BOTTOM	TOP	Layer Thickness	Multiply Together r^2	Multiply Together Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			434.64	1	3.14	1365	.0043	5.9		17.6	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

Shaw
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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. MW-10
SAMPLE NO.UST820- MW10

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 3/1/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1100
PHONE: 910-451-2390	WEATHER: Sunny 50's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm^c)
Turbidity (Turb.)							(NTU)
Dissolved Oxygen (DO)							(g/l)
Temperature (Temp)							(°C)
ORP							

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=		HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water		(Ft)	=		HT (ft)

d = 2
r = 1
d/2 = 1

MEASUREMENTS (IN INCHES)
Multiply Together

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14		.0043				
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: NOT SAMPLED Due to well surging + Bubbling

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: BM 820	
WELL NO. MW-14	
SAMPLE NO.UST820-MW14	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: SUNNY WINDY 50'S
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 3/1/05
TIME 1330
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.79	4.81	4.83	4.82			(STD)
Specific Conductivity	0.060	0.063	0.064	0.064			(m S/cm^c)
Turbidity (Turb.)	26.5	21.9	17.4	[illegible]	11.6		(NTU)
Dissolved Oxygen (DO)	1.20	0.69	0.50	0.43			(g/l)
Temperature (Temp)	18.00	18.67	18.84	18.88			(°C)
ORP	459.6	345.1	318.0	186.6			

Depth to Bottom	295.44	(In) (Minus)	Depth to Water	171.12	(In)	=	124.32	HT (in)
Depth to Bottom	24.62	(Ft) (Minus)	Depth to Water	14.26	(Ft)	=	10.36	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1
Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			124.32	1	3.14	390	.0043	1.7		5.0	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. MW-18
SAMPLE NO.UST820- MW18

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 2/26/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1415
PHONE: 910-451-2390	WEATHER: SUNNY 40'S	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.56	3.94	3.94	3.91			(STD)
Specific Conductivity	4.362	0.489	0.489	0.505			(m S/cm^c)
Turbidity (Turb.)	1343.4	145.7	26.0	14.4			(NTU)
Dissolved Oxygen (DO)	4.08	0.98	0.51	0.49			(g/l)
Temperature (Temp)	19.77	18.64	18.56	18.53			(°C)
ORP	502.1	331.4	260.2	240.0			

Depth to Bottom	300.00	(In) (Minus)	Depth to Water	156.12	(In)	=	143.88	HT (in)
Depth to Bottom	25.00	(Ft) (Minus)	Depth to Water	13.01	(Ft)	=	11.99	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			143.88	1	3.14	452	.0043	1.9		5.8	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: BM 820	
WELL NO. MW-19	
SAMPLE NO.UST820- MW19	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Sunny 40's
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 2/26/05
TIME 1330
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.19	3.19	3.20	3.20			(STD)
Specific Conductivity	22.53	23.08	20.82	20.55			(m S/cm^c)
Turbidity (Turb.)	71.5	57.8	61.1	40.3			(NTU)
Dissolved Oxygen (DO)	2.07	1.98	1.63	1.92			(g/l)
Temperature (Temp)	21.35	22.05	21.80	22.60			(°C)
ORP	540.6	520.1	508.4	519.1			

Depth to Bottom	619.20	(In) (Minus)	Depth to Water	228.36	(In)	=	390.84	HT (in)
Depth to Bottom	51.60	(Ft) (Minus)	Depth to Water	19.03	(Ft)	=	32.57	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			390.84	1	3.14	1227	.0043	5.3		15.8	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: BM 820	
WELL NO. MW-20	
SAMPLE NO.UST820-MW20	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Sunny Cool 40'-50'
LEL:	
PID:	Sampling Device: Bailer

DATE 3/1/05
TIME 1100
Well Locked: [X] Yes
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.54	4.49	4.44	4.41			(STD)
Specific Conductivity	0.186	0.079	0.076	0.077			(m S/cm°)
Turbidity (Turb.)	224.8	33.2	5.6	6.1			(NTU)
Dissolved Oxygen (DO)	3.95	3.46	3.47	3.52			(g/l)
Temperature (Temp)	17.43	17.70	17.72	17.74			(°C)
ORP	398.0	424.8	434.5	447.8			

Depth to Bottom	295.20	(In) (Minus)	Depth to Water	168.60	(In)	=	126.60	HT (in)
Depth to Bottom	24.60	(Ft) (Minus)	Depth to Water	14.05	(Ft)	=	10.55	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			126.6	1	3.14	398	.0043	1.7		5.1	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

Multiply Together

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: BM 820	
WELL NO. MW-21	
SAMPLE NO.UST820- MW21	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Sunny cool 40's
LEL:	
PID:	Sampling Device: Bailer

DATE 3/1/05
TIME 1000
Well Locked: [X] Yes
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.05	3.15	3.15	3.15			(STD)
Specific Conductivity	1.308	1.290	1.452	1.571			(m S/cm°)
Turbidity (Turb.)	47.8	15.4	2.0	0.0			(NTU)
Dissolved Oxygen (DO)	0.75	0.45	0.44	0.45			(g/l)
Temperature (Temp)	18.46	19.20	19.57	19.67			(°C)
ORP	531.4	498.1	391.0	353.7			

Depth to Bottom	621.60	(In) (Minus)	Depth to Water	220.80	(In)	=	400.8	HT (in)
Depth to Bottom	51.80	(Ft) (Minus)	Depth to Water	18.40	(Ft)	=	33.40	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1
Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			400.8	1	3.14	1259	.0043	5.4		16.2	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]

OTHER:

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: BM 820	
WELL NO. MW-22	
SAMPLE NO.UST820- MW22	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: SUNNY 50'S
LEL:	
PID:	Sampling Device: Bailer

DATE 3/1/05
TIME 1245
Well Locked: [X] Yes
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.33	4.48	4.52	4.53			(STD)
Specific Conductivity	0.100	0.076	0.075	0.075			(m S/cm°)
Turbidity (Turb.)	51.7	7.2	2.4	1.8			(NTU)
Dissolved Oxygen (DO)	1.20	0.54	0.54	0.58			(g/l)
Temperature (Temp)	16.66	17.38	17.26	17.20			(°C)
ORP	439.8	371.0	336.6	324.1			

Depth to Bottom	256.08	(In) (Minus)	Depth to Water	196.32	(In)	=	59.76	HT (in)
Depth to Bottom	21.34	(Ft) (Minus)	Depth to Water	16.36	(Ft)	=	4.98	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1
d/2 = 1

Multiply Together

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			59.76	1	3.14	188	.0043	0.8	2.4	10
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED: DRUM: DRUM# SITE TREATMENT: [X]

OTHER:

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. MW-23
SAMPLE NO.UST820- MW23

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 3/10/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1200
PHONE: 910-451-2390	WEATHER: Sunny 50's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.42	3.38	3.50	3.62			(STD)
Specific Conductivity	0.414	0.431	0.410	0.356			(m S/cm°)
Turbidity (Turb.)	111.7	31.3	8.9	2.5			(NTU)
Dissolved Oxygen (DO)	2.09	2.09	1.10	0.58			(g/l)
Temperature (Temp)	17.03	17.24	17.55	17.75			(°C)
ORP	524.3	514.2	500.8	486.4			

Depth to Bottom	616.44	(In) (Minus)	Depth to Water	196.44	(In)	=	420.00	HT (in)
Depth to Bottom	51.37	(Ft) (Minus)	Depth to Water	16.37	(Ft)	=	35.00	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			420	1	3.14	1319	.0043	5.7		17	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: BM 820	
WELL NO. MW-24	
SAMPLE NO.UST820- MW24	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: SUNNY 40'S
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 2/26/05
TIME 1200
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.20	4.26	4.24	4.22			(STD)
Specific Conductivity	0.153	0.115	0.124	0.127			(m S/cm^c)
Turbidity (Turb.)	1326.3	801.5	193.1	69.2			(NTU)
Dissolved Oxygen (DO)	1.46	0.71	0.55	0.52			(g/l)
Temperature (Temp)	18.29	18.81	18.91	19.06			(°C)
ORP	472.4	456.6	451.0	447.6			

Depth to Bottom	303.00	(In) (Minus)	Depth to Water	192.00	(In)	=	111.00	HT (in)
Depth to Bottom	25.25	(Ft) (Minus)	Depth to Water	16.00	(Ft)	=	9.25	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			111.0	1	3.14	349	.0043	1.5		4.5	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. MW-25
SAMPLE NO.UST820- MW25

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 2/26/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1115
PHONE: 910-451-2390	WEATHER: SUNNY 40'S	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.65	3.81	3.79	3.78			(STD)
Specific Conductivity	0.573	0.607	0.621	0.641			(m S/cm^c)
Turbidity (Turb.)	0.5	0.1	0.8	0.0			(NTU)
Dissolved Oxygen (DO)	1.30	0.54	0.40	0.30			(g/l)
Temperature (Temp)	17.99	18.61	18.77	18.98			(°C)
ORP	504.5	462.9	445.6	424.3			

Depth to Bottom	597.36	(In) (Minus)	Depth to Water	183.84	(In)	=	413.52	HT (in)
Depth to Bottom	49.78	(Ft) (Minus)	Depth to Water	15.32	(Ft)	=	34.46	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			413.52	1	3.14	1298	.0043	5.6		16.8	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. MW-26
SAMPLE NO.UST820- MW26

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 2/26/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1245
PHONE: 910-451-2390	WEATHER: Sunny 40's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.63	4.71	4.66	4.64			(STD)
Specific Conductivity	0.081	0.081	0.079	0.078			(m S/cm^c)
Turbidity (Turb.)	1051.8	428.1	543.1	314.9			(NTU)
Dissolved Oxygen (DO)	6.03	5.86	5.71	5.66			(g/l)
Temperature (Temp)	18.70	19.46	19.65	19.73			(^{o}C)
ORP	462.1	470.2	477.0	481.1			

Depth to Bottom	295.20	(In) (Minus)	Depth to Water	145.44	(In)	=	149.76	HT (in)
Depth to Bottom	24.60	(Ft) (Minus)	Depth to Water	12.12	(Ft)	=	12.48	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1
Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			149.76	1	3.14	470	.0043	2.0		6.1	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]

OTHER:

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. UST 820 - MW07
SAMPLE NO. UST820-MW07

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 5/31/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1530
PHONE: 910-451-2390	WEATHER: 85. 70S	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.95	5.14	5.18	5.15			(STD)
Specific Conductivity	0.130	0.120	0.110	0.100			(m S/cm^c)
Turbidity (Turb.)	1330.4	1327.4	498.0	244.9			(NTU)
Dissolved Oxygen (DO)	1.83	0.91	0.63	0.52			(g/l)
Temperature (Temp)	18.26	18.03	17.55	17.57			(°C)
ORP	429.1	423.4	417.8	415.2			

Depth to Bottom	285.60	(In) (Minus)	Depth to Water	145.92	(In)	=	139.68	HT (in)
Depth to Bottom	23.80	(Ft) (Minus)	Depth to Water	12.16	(Ft)	=	11.64	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			139.68	1	3.14	439	.0043	1.9		5.7	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Duplicate Sample Taken

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]
OTHER:

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. UST820 - MW08
SAMPLE NO.UST820-MW 8

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 5/31/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1430
PHONE: 910-451-2390	WEATHER: PC 70'S	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.17	3.10	3.11	3.12			(STD)
Specific Conductivity	0.797	0.852	0.864	0.862			(m S/cm^c)
Turbidity (Turb.)	139.8	300.0	17.6	40.3			(NTU)
Dissolved Oxygen (DO)	3.94	3.56	2.82	3.03			(g/l)
Temperature (Temp)	21.78	20.75	20.44	20.75			(°C)
ORP	542.6	539.8	536.8	535.5			

Depth to Bottom	590.40	(In) (Minus)	Depth to Water	154.44	(In)	=	435.96	HT (in)
Depth to Bottom	49.20	(Ft) (Minus)	Depth to Water	12.87	(Ft)	=	36.33	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			435.96	1	3.14	1368	.0043	5.9		17.7	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]

OTHER:

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: BM 820	
WELL NO. UST 820 - MW14	
SAMPLE NO. UST820-MW14	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Cloudy 70's
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 5/31/05
TIME 1330
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.86	4.83	4.81	4.76			(STD)
Specific Conductivity	0.071	0.066	0.069	0.065			(m S/cm[c])
Turbidity (Turb.)	242.2	261.6	265.5	119.5			(NTU)
Dissolved Oxygen (DO)	1.87	0.60	0.48	0.43			(g/l)
Temperature (Temp)	20.28	18.74	18.56	18.52			(°C)
ORP	357.8	316.0	301.5	287.6			

Depth to Bottom	295.44	(In) (Minus)	Depth to Water	169.44	(In)	=	126.00	HT (in)
Depth to Bottom	24.62	(Ft) (Minus)	Depth to Water	14.12	(Ft)	=	10.50	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			126.00	1	3.14	396	.0043	1.7		5.1	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]

OTHER:

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. UST820 - MW18
SAMPLE NO. UST820- MW18

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 5/31/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1030
PHONE: 910-451-2390	WEATHER: Cloudy 60's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.53	4.02	4.07	4.06			(STD)
Specific Conductivity	5.628	0.556	0.406	0.402			(m S/cm°)
Turbidity (Turb.)	1345.5	247.8	45.7	22.4			(NTU)
Dissolved Oxygen (DO)	1.42	2.48	0.80	0.55			(g/l)
Temperature (Temp)	19.83	18.49	18.38	18.37			(°C)
ORP	555.0	521.2	490.8	467.6			

Depth to Bottom	300.00	(In) (Minus)	Depth to Water	145.32	(In)	=	154.68	HT (in)
Depth to Bottom	25.00	(Ft) (Minus)	Depth to Water	12.11	(Ft)	=	12.89	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			154.68	1	3.14	486	.0043	2.1		6.3	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]

OTHER:

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. UST 820 - MW19
SAMPLE NO. UST820- MW19

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 5/31/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 0930
PHONE: 910-451-2390	WEATHER: Cloudy 60's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.30	3.28	3.28	3.28			(STD)
Specific Conductivity	~~19.9~~ 19.12	19.80	18.92	19.95			(m S/cm^6)
Turbidity (Turb.)	123.9	85.5	58.2	29.1			(NTU)
Dissolved Oxygen (DO)	1.68	0.0	0.0	0.0			(g/l)
Temperature (Temp)	21.04	21.99	22.02	22.05			(°C)
ORP	582.6	573.0	569.7	563.8			

Depth to Bottom	619.20	(In) (Minus)	Depth to Water	220.32	(In)	=	398.88	HT (in)
Depth to Bottom	51.60	(Ft) (Minus)	Depth to Water	18.36	(Ft)	=	33.24	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			398.88	1	3.14	1252	.0043	5.4		16.2	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. UST820 - MW20
SAMPLE NO. UST820-MW20

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 5/31/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1230
PHONE: 910-451-2390	WEATHER: Cloudy 60's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.94	4.45	4.49	4.48			(STD)
Specific Conductivity	0.344	0.084	0.077	0.075			(m S/cm°)
Turbidity (Turb.)	198.1	160.3	56.1	25.4			(NTU)
Dissolved Oxygen (DO)	3.84	1.32	1.12	1.07			(g/l)
Temperature (Temp)	17.46	17.13	17.19	17.21			(°C)
ORP	506.6	470.1	457.8	451.8			

Depth to Bottom	295.20	(In) (Minus)	Depth to Water	172.44	(In)	=	122.76	HT (in)
Depth to Bottom	24.60	(Ft) (Minus)	Depth to Water	14.37	(Ft)	=	10.23	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			122.76	1	3.14	385	.0043	1.7	5.0	10
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. UST820-MW21
SAMPLE NO. UST820-MW21

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 5/31/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1130
PHONE: 910-451-2390	WEATHER: cloudy 60's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.44	3.30	3.30	3.29			(STD)
Specific Conductivity	1.339	1.199	1.220	1.280			(m S/cm°)
Turbidity (Turb.)	323.5	18.5	11.3	4.3			(NTU)
Dissolved Oxygen (DO)	3.36	0.46	0.49	1.04			(g/l)
Temperature (Temp)	18.52	19.48	19.57	19.70			(°C)
ORP	558.2	556.5	554.8	548.1			

Depth to Bottom	621.60	(In) (Minus)	Depth to Water	215.52	(In)	=	406.08	HT (in)
Depth to Bottom	51.80	(Ft) (Minus)	Depth to Water	17.96	(Ft)	=	33.84	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			406.08	1	3.14	1275	.0043	5.5		16.4	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]

OTHER:

Shaw Environmental & Infrastructure, Inc.	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 110385
		PROJECT NAME: BM 820
		WELL NO.
		SAMPLE NO.UST820-MW22

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 5/31/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1730
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm^c)
Turbidity (Turb.)							(NTU)
Dissolved Oxygen (DO)							(g/l)
Temperature (Temp)							(°C)
ORP							

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=		HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water		(Ft)	=		HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14		.0043				
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Hand Purged Well Due to weather conditions

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO.
SAMPLE NO.UST820-MW23

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 5/31/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME ~~1630~~ 1630
PHONE: 910-451-2390	WEATHER: 86 70's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH							(STD)
Specific Conductivity							(m S/cm°)
Turbidity (Turb.)							(NTU)
Dissolved Oxygen (DO)							(g/l)
Temperature (Temp)							(°C)
ORP							

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=		HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water		(Ft)	=		HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14		.0043				
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Hand Purged well. unable to get equipt. Close towell Due to weather Condition

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]
OTHER:

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. UST820 - MW24
SAMPLE NO.UST820-MW24

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 5/27/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1130
PHONE: 910-451-2390	WEATHER: SUNNY 70'S	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.18	4.37	4.34	4.33			(STD)
Specific Conductivity	0.203	0.112	0.115	0.115			(m S/cm^c)
Turbidity (Turb.)	1350	613.4	150.2	76.8			(NTU)
Dissolved Oxygen (DO)	3.16	0.85	0.70	0.24			(g/l)
Temperature (Temp)	20.12	19.30	19.31	19.31			(°C)
ORP	515.7	504.8	505.8	505.8			

Depth to Bottom	303.00	(In) (Minus)	Depth to Water	181.44	(In)	=	121.56	HT (in)
Depth to Bottom	25.25	(Ft) (Minus)	Depth to Water	15.12	(Ft)	=	10.13	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			121.56	1	3.14	382	.0043	1.6		4.9	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]

OTHER:

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: BM 820	
WELL NO. UST820-MW25	
SAMPLE NO.UST820-MW25	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Sunny 70's
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 5/27/05
TIME 1030
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.81	3.77	3.79	3.80			(STD)
Specific Conductivity	0.568	0.578	0.641	0.702			(m S/cm^c)
Turbidity (Turb.)	0.0	3.5	0.3	0.0			(NTU)
Dissolved Oxygen (DO)	1.95	0.96	0.45	0.29			(g/l)
Temperature (Temp)	19.54	19.62	19.68	19.72			(°C)
ORP	549.5	535.7	528.1	523.9			

Depth to Bottom	577.36	(In) (Minus)	Depth to Water	149.92	(In)	=	427.44	HT (in)
Depth to Bottom	49.78	(Ft) (Minus)	Depth to Water	14.16	(Ft)	=	35.62	HT (ft)

d= 2 MEASUREMENTS (IN INCHES)
r= 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			427.44	1	3.14	1342	.0043	5.8		17.3	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED: | DRUM: | DRUM# | SITE TREATMENT: [X]

OTHER:

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: BM 820
WELL NO. UST820 - MW26
SAMPLE NO. UST820-MW26

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 5/27/09
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1230
PHONE: 910-451-2390	WEATHER: Sunny 70's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	4.62	4.81	4.77	4.76			(STD)
Specific Conductivity	0.100	0.087	0.084	0.084			(m S/cm°)
Turbidity (Turb.)	698.2	303.1	154.3	111.2			(NTU)
Dissolved Oxygen (DO)	5.56	4.47	4.46	4.47			(g/l)
Temperature (Temp)	20.78	19.13	18.58	18.01			(°C)
ORP	474.4	481.4	491.1	495.1			

Depth to Bottom	295.20	(In) (Minus)	Depth to Water	143.52	(In)	=	151.68	HT (in)
Depth to Bottom	24.60	(Ft) (Minus)	Depth to Water	11.96	(Ft)	=	12.64	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			151.68	1	3.14	476	.0043	2.0		6.1	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. PW01
SAMPLE NO.UST820-PW01

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/8/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1147
PHONE: 910-451-2390	WEATHER: 80's mid / overcast	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

(25) FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	21.39	21.90	21.07	21.02			(°C)
Specific Conductivity	.158	.154	.239	.292			(mS/cm°)
Dissolved Oxygen (DO)	6.07	7.16	11.18	11.77			(mg/L)
PH	7.59	6.70	6.79	~~6.86~~ → 6.98			(STD)
ORP	299.9	348.1	362.5	342.1			mV
Turbidity (Turb)	575.1	112.3	59.8	35.2			(NTU)

Depth to Bottom	405.72	(In) (Minus)	Depth to Water	171.60	(In)	=	234.12	HT (in)
Depth to Bottom	33.81	(Ft) (Minus)	Depth to Water	14.30	(Ft)	=	19.51	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			19.51	1	3.14	6016	.0043	28.4	853	78
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Water was chocolate in color on intial purge

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. 820-MW2
SAMPLE NO.UST820- MW2

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/6/04
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 9:54
PHONE: 910-451-2390	WEATHER: Overcast / Sunny Intermittently	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1 (6.5)	2	3	4			
Temperature (Temp)	22.76	22.70	22.89	22.96			(°C)
Specific Conductivity	.318	.308	.310	.323			(mS/cm°)
Dissolved Oxygen (DO)	2.50	.82	.85	.63			(mg/L)
PH	5.88	6.15	6.18	6.26			(STD)
ORP	427.9	367.6	164.9	28.0			mV
Turbidity (Turb)	172.0	46.0	8.3	3.6			(NTU)

Depth to Bottom	270.12	(In) (Minus)	Depth to Water	173.40	(In)	=	96.72	HT (in)
Depth to Bottom	22.51	(Ft) (Minus)	Depth to Water	14.45	(Ft)	=	8.06	HT (ft)

4 1/2
2 3/4
1.5
Ø

16
-15
5.1/2

d = 4 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			96.72	1	3.14	1215	.0043	5.2	15.7	20
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW3
SAMPLE NO.UST820-MW3

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/8/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 8:35
PHONE: 910-451-2390	WEATHER: 80's Overcast/ Rain	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

(5)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	22.67	23.32	23.33	23.34			(°C)
Specific Conductivity	.709	.687	.766	.774			(mS/cm°)
Dissolved Oxygen (DO)	5.04	5.43	3.97	3.43			(mg/L)
PH	6.54	6.97	7.08	7.08			(STD)
ORP	43.5	393.0	195.1	107.8			mV
Turbidity (Turb)	124	14.4	.17	.3			(NTU)

Depth to Bottom	272.28	(In) (Minus)	Depth to Water	175.56	(In)	=	96.72	HT (in)
Depth to Bottom	22.69	(Ft) (Minus)	Depth to Water	14.63	(Ft)	=	8.06	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			8.06	1	3.14	1215	.0043	5.2	15.7	16
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: No Cap on pipe

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

23
15
8
x 2
16
÷ 3
5.3

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. UST820-MW04
SAMPLE NO.UST820-MW04

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/10/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1400
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	32.41	24.01	23.77	24.00			(°C)
Specific Conductivity	0.007	0.144	0.142	0.140			(mS/cm°)
Dissolved Oxygen (DO)	8.57	3.64	2.99	3.10			(mg/L)
PH	5.03	4.69	4.60	4.57			(STD)
ORP	503.7	508.8	510.8	512.0			mV
Turbidity (Turb)	0.0	0.0	0.0	0.0			(NTU)

Depth to Bottom	270.60	(In) (Minus)	Depth to Water	175.44	(In)	=	95.16	HT (in)
Depth to Bottom	22.56	(Ft) (Minus)	Depth to Water	14.62	(Ft)	=	7.93	HT (ft)

d = 4 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			95.16	1	3.14	1195	.0043	5.1		15.4	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM:	DRUM#	SITE TREATMENT: [X]
OTHER:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW-5
SAMPLE NO.UST820- MW05

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/4/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 0945
PHONE: 910-451-2390	WEATHER: Cloudy >0's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	26.15	26.35	26.38	26.74			(°C)
Specific Conductivity	0.101	0.058	0.104	0.101			(mS/cm°)
Dissolved Oxygen (DO)	11.96	11.83	10.83	9.93			(mg/L)
PH	4.88	4.43	4.35	4.36			(STD)
ORP	196.7	266.3	330.3	352.2			mV
Turbidity (Turb)	117.9	18.1	3.9	0.0			(NTU)

Depth to Bottom	164.52	(In) (Minus)	Depth to Water	136.56	(In)	=	27.96	HT (in)
Depth to Bottom	13.71	(Ft) (Minus)	Depth to Water	11.38	(Ft)	=	2.33	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			27.96	1	3.14	88	.0043	0.4		1.1	2
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW6
SAMPLE NO. UST820- MW6

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/8/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 9:53
PHONE: 910-451-2390	WEATHER: Mid 80's Overcast	
LEL:		Well Locked: ~~[X] Yes~~ [X] No
PID:	Sampling Device: Bailer	

FIELD MEASUREMENTS

	1 (2)	2	3	4			
Temperature (Temp)	20.81	20.59	20.82	20.91			(°C)
Specific Conductivity	.440	.415	.413	.444			(mS/cm°)
Dissolved Oxygen (DO)	.11	.18	1.06	1.97			(mg/L)
PH	6.38	6.61	6.62	6.63			(STD)
ORP	268.9	-17.5	-49.2	-48.4			mV
Turbidity (Turb)	1355.2	331.5	236.3	152.6			(NTU)

Depth to Bottom	33.48 (In) (Minus)	Depth to Water	182.40	(In)	=	157.08	HT (in)
Depth to Bottom	~~13.91~~ 28.29 (Ft) (Minus)	Depth to Water	15.2	(Ft)	=	13.09	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			13.09	1	3.14	493	.0043	2.1	6.4	6.5
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: a lot of sand in water

PURGE DISCHARGED: | DRUM: ☐ | DRUM# | SITE TREATMENT: [X]
OTHER: ☐

19
29
15
14
7
2.2

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW-7
SAMPLE NO.UST820-MW07

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/9/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1215
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	21.39	20.54	20.31	20.29			(°C)
Specific Conductivity	0.055	0.054	0.054	0.054			(mS/cm°)
Dissolved Oxygen (DO)	6.79	5.39	1.98	1.38			(mg/L)
PH	5.20	5.17	5.15	5.15			(STD)
ORP	138.4	176.8	196.5	213.4			mV
Turbidity (Turb)	1235.4	876.1	552.5	430.9			(NTU)

Depth to Bottom	286.60	(In) (Minus)	Depth to Water	152.64	(In)	=	132.96	HT (in)
Depth to Bottom	23.80	(Ft) (Minus)	Depth to Water	12.72	(Ft)	=	11.08	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			132.96	1	3.14	417	.0043	1.8		5.4	8
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW-8
SAMPLE NO.UST820- MW-8

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/8/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1130
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	21.01	21.00	19.98	19.57			(°C)
Specific Conductivity	0.746	0.744	0.745	0.740			(mS/cm°)
Dissolved Oxygen (DO)	2.96	1.84	0.56	0.0			(mg/L)
PH	3.03	2.97	2.95	2.95			(STD)
ORP	495.0	—	—	—			mV
Turbidity (Turb)	28.1	16.4	0	0			(NTU)

Depth to Bottom	550.40	(In) (Minus)	Depth to Water	163.44	(In)	=	426.96	HT (in)
Depth to Bottom	49.20	(Ft) (Minus)	Depth to Water	13.62	(Ft)	=	35.58	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			426.96	1	3.14	1341	.0043	5.8		17.3	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW9 820 MW9
SAMPLE NO.UST820- MW9

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/6/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 11:10
PHONE: 910-451-2390	WEATHER: Partly Cloudy / [illegible]	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	24.70	25.08	25.05	26.05			(°C)
Specific Conductivity	7.937	7.981	7.938	7.892			(mS/cm°)
Dissolved Oxygen (DO)	1.94	.51	.64	.45			(mg/L)
PH	2.72	3.21	3.23	3.25			(STD)
ORP	486.0	467.1	471.4	471.7			mV
Turbidity (Turb)	47.1	32.7	5.7	~~105~~	0.0		(NTU)

4
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33

Depth to Bottom	615.48	(In) (Minus)	Depth to Water	225.72	(In)	=	389.76	HT (in)
Depth to Bottom	51.39	(Ft) (Minus)	Depth to Water	18.81	(Ft)	=	32.48	HT (ft)

15.15
15 1/4

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			389.76	1	3.14	1224	.0043	5.3		15.8	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. 820MW9D
SAMPLE NO.UST820- MW9D

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8-6-05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 13:52
PHONE: 910-451-2390	WEATHER: Partly cloudy / [illegible]	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

13.3

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	24.81	23.13	23.18	22.79			(°C)
Specific Conductivity	.455	.337	.336	.336			(mS/cm°)
Dissolved Oxygen (DO)	7.76	.22	.29	.44			(mg/L)
PH	5.15	6.57	6.83	6.99			(STD)
ORP	140.7	-6.9	-43.5	67.7			mV
Turbidity (Turb)	36.5	.5	+4.0	4.7			(NTU)

Depth to Bottom	1209.96	(In) (Minus)	Depth to Water	250.80	(In)	=	959.16	HT (in)
Depth to Bottom	100.83	(Ft) (Minus)	Depth to Water	20.90	(Ft)	=	79.93	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			959.16	1	3.14	3012	.0043	13.0		38.9	40+
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW-11
SAMPLE NO.UST820-MW11

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/10/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1215
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	26.45	28.43	27.90				(°C)
Specific Conductivity	0.148	0.082	0.085				(mS/cm°)
Dissolved Oxygen (DO)	4.14	4.02	2.11				(mg/L)
PH	4.72	5.62	5.62				(STD)
ORP	485.9	480.5	339.4				mV
Turbidity (Turb)	32.1	2.7	5.5				(NTU)

Depth to Bottom	282.00	(In) (Minus)	Depth to Water	126.96	(In)	=	155.04	HT (in)
Depth to Bottom	23.50	(Ft) (Minus)	Depth to Water	10.58	(Ft)	=	12.92	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			155.04	1	3.14	487	.0043	2.1		6.3	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW12
SAMPLE NO.UST820-MW12

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/8/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 9:04
PHONE: 910-451-2390	WEATHER: 80's upper Overcast	
LEL:		Well Locked: ~~[X] Yes~~ [ ] No
PID:	Sampling Device: Bailer	

(2) FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	21.09	20.86	20.79	20.77			(°C)
Specific Conductivity	.102	.091	.097	.099			(mS/cm°)
Dissolved Oxygen (DO)	4.84	3.91	3.39	3.21			(mg/L)
PH	7.96	6.42	4.90	4.60			(STD)
ORP	289.7	425.4	451.7	455.5			mV
Turbidity (Turb)	217.8	469.1	258.0	136.1			(NTU)

Depth to Bottom	305.28	(In) (Minus)	Depth to Water	170.52	(In) =	134.76	HT (in)
Depth to Bottom	25.44	(Ft) (Minus)	Depth to Water	14.21	(Ft) =	11.23	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			11.23	1	3.14	423	.0043	1.8	5.5	6
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Water color light ~~orange~~ orange during purging

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

14
12
÷ 2
6
3
÷ (2)

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW-13
SAMPLE NO. UST820-MW13

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/6/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1437
PHONE: 910-451-2390	WEATHER: PC 80's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	24.57	23.81	23.35	24.03			(°C)
Specific Conductivity	0.034	0.020	0.029	0.040			(mS/cm°)
Dissolved Oxygen (DO)	11.44	10.23	12.76	9.58			(mg/L)
PH	6.27	5.40	5.30	5.20			(STD)
ORP	213.4	97.6	115.6	136.8			mV
Turbidity (Turb)	3.1	11.4	4.9	0.9			(NTU)

Depth to Bottom	277.20	(In) (Minus)	Depth to Water	160.20	(In)	=	117.00	HT (in)
Depth to Bottom	23.10	(Ft) (Minus)	Depth to Water	13.35	(Ft)	=	9.75	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			117.00	1	3.14	367	.0043	1.6		4.7	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Well 13 Bubbles

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW14
SAMPLE NO.UST820-MW14

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/9/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1010
PHONE: 910-451-2390	WEATHER: Upper 80's Sunny/Partly Cloudy	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

(2) FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	20.70	19.82	19.63	19.64			(°C)
Specific Conductivity	.188	.078	.065	.063			(mS/cm°)
Dissolved Oxygen (DO)	4.96	1.20	.85	.77			(mg/L)
PH	4.58	4.89	5.10	5.14			(STD)
ORP	495.3	464.4	346.2	315.4			mV
Turbidity (Turb)	127.5	120.8	192.7	97.1			(NTU)

25
14
1
1.0
5.5
3
3
25

Depth to Bottom	295.44	(In) (Minus)	Depth to Water	165.00	(In)	=	130.44	HT (in)
Depth to Bottom	24.62	(Ft) (Minus)	Depth to Water	13.75	(Ft)	=	10.87	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			130.44	1	3.14	410	.0043	1.8		5.3	8
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW15
SAMPLE NO.UST820-MW15

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/6/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1215
PHONE: 910-451-2390	WEATHER: PC 80's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	24.23	23.99	23.94	23.94			(°C)
Specific Conductivity	0.140	0.119	0.122	0.123			(mS/cm^c)
Dissolved Oxygen (DO)	12.64	10.40	10.41	10.35			(mg/L)
PH	5.56	5.57	5.51	5.47			(STD)
ORP	214.2	173.2	166.1	164.2			mV
Turbidity (Turb)	5.5	0.0	0.0	0.0			(NTU)

Depth to Bottom	288.0	(In) (Minus)	Depth to Water	124.32	(In)	=	163.68	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	10.36	(Ft)	=	13.64	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			163.68	1	3.14	514	.0043	2.2		6.6	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW-16
SAMPLE NO.UST820-MW16

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/8/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1215
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	21.17	21.24	21.44	21.48			(°C)
Specific Conductivity	0.587	0.201	0.168	0.165			(mS/cm°)
Dissolved Oxygen (DO)	—						(mg/L)
PH	3.48	4.17	4.34	4.36			(STD)
ORP	437.0	333.5	302.0	296.1			mV
Turbidity (Turb)	245.2	11.1	7.0	4.3			(NTU)

Depth to Bottom	339.60	(In) (Minus)	Depth to Water	159.48	(In)	=	180.12	HT (in)
Depth to Bottom	28.30	(Ft) (Minus)	Depth to Water	13.29	(Ft)	=	15.01	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 • Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			15.01	1	3.14	566	.0043	2.4		7.3	8
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Duplicate Sample Taken

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW-17
SAMPLE NO.UST820-MW17

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/8/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1135
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	23.06	23.49	23.48	23.56			(°C)
Specific Conductivity	6.034	0.105	9.651	8.773			(mS/cm°)
Dissolved Oxygen (DO)							(mg/L)
PH	2.58	2.49	2.48	2.50			(STD)
ORP	439.5	448.1	446.0	442.3			mV
Turbidity (Turb)	46.5	21.8	10.6	10.4			(NTU)

Depth to Bottom	619.20	(In) (Minus)	Depth to Water	237.72	(In)	=	381.48	HT (in)
Depth to Bottom	51.60	(Ft) (Minus)	Depth to Water	19.81	(Ft)	=	31.79	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			~~1198~~ 31.79	1	3.14	1198	.0043	5.2		15.5	16
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW18
SAMPLE NO.UST820-MW18

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/10/08
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1115
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	21.67	20.51	20.53	20.56			(°C)
Specific Conductivity	0.222	0.462	0.485	0.527			(mS/cm°)
Dissolved Oxygen (DO)	3.65	1.37	1.33	1.38			(mg/L)
PH	3.95	3.90	3.91	3.90			(STD)
ORP	530.4	482.1	464.9	442.3			mV
Turbidity (Turb)	425.3	10.9	5.6	2.7			(NTU)

Depth to Bottom	300.00	(In) (Minus)	Depth to Water	164.28	(In)	=	135.72	HT (in)
Depth to Bottom	25.00	(Ft) (Minus)	Depth to Water	13.69	(Ft)	=	11.31	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			135.72	1	3.14	426	.0043	1.8		5.5	8
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. UST 820 - MW19
SAMPLE NO.UST820-MW19

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/8/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1415
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	22.64	22.46					(°C)
Specific Conductivity	17.80	17.10					(mS/cm°)
Dissolved Oxygen (DO)							(mg/L)
PH	3.22	3.22					(STD)
ORP	235.7	238.1					mV
Turbidity (Turb)	54.4	53.5					(NTU)

Depth to Bottom	619.20	(In) (Minus)	Depth to Water	227.40	(In)	=	391.80	HT (in)
Depth to Bottom	51.60	(Ft) (Minus)	Depth to Water	18.95	(Ft)	=	32.65	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			32.65	1	3.14	1230	.0043	5.3		15.9	~~15~~ 11
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Purged Dry 2X Vol

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW28
SAMPLE NO.UST820- MW20

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/9/06
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1015
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	19.24	19.11	19.39	19.42			(°C)
Specific Conductivity	0.074	0.075	0.073	0.073			(mS/cm°)
Dissolved Oxygen (DO)	4.98	3.76	3.28	3.25			(mg/L)
PH	4.27	4.54	4.58	4.57			(STD)
ORP	299.1	304.7	311.8	315.6			mV
Turbidity (Turb)	396.3	199.7	12.8	5.7			(NTU)

Depth to Bottom	285.20	(In) (Minus)	Depth to Water	186.60	(In)	=	108.60	HT (in)
Depth to Bottom	24.60	(Ft) (Minus)	Depth to Water	15.55	(Ft)	=	9.05	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			168.60	1	3.14	341	.0043	1.5		4.4	6
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW-21
SAMPLE NO.UST820-MW21

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/9/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 0942
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	20.11	20.00	20.62	20.51			(°C)
Specific Conductivity	1.005	1.026	0.679	1.363			(mS/cm°)
Dissolved Oxygen (DO)	4.63	4.64	3.82	2.56			(mg/L)
PH	3.47	3.35	3.34	3.30			(STD)
ORP	306.3	330.3	320.9	308.2			mV
Turbidity (Turb)	27.6	11.9	1.1	1.5			(NTU)

Depth to Bottom	621.60	(In) (Minus)	Depth to Water	225.60	(In)	=	396.00	HT (in)
Depth to Bottom	51.80	(Ft) (Minus)	Depth to Water	18.80	(Ft)	=	33.00	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			396	1	3.14	1243	.0043	5.3		16	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: Bldg 820	
WELL NO. MW-22	
SAMPLE NO.UST820- MW22	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer ☐ No

DATE 8/10/05
TIME 0945

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	19.75	19.15	19.07	18.92			(°C)
Specific Conductivity	0.072	0.066	0.066	0.063			(mS/cm°)
Dissolved Oxygen (DO)	5.39	4.75	3.93	2.01			(mg/L)
PH	4.55	4.65	4.66	4.67			(STD)
ORP	245.9	233.0	239.6	242.1			mV
Turbidity (Turb)	48.1	19.1	10.1	2.5			(NTU)

Depth to Bottom	260.52	(In) (Minus)	Depth to Water	164.28	(In)	=	96.24	HT (in)
Depth to Bottom	21.71	(Ft) (Minus)	Depth to Water	13.69	(Ft)	=	8.02	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			96.24	1	3.14	302	.0043	1.3		3.9	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO.
SAMPLE NO.UST820- ~~HW23~~

PROJECT LOCATION: Camp Lejeune | LOGGER: Mark Martin/Marcella Wallace | DATE ~~8/10/05~~ 8/10/05
PROJECT CONTACT: Mark Martin | SAMPLER: Mark Martin/Marcella Wallace | TIME ~~8/10/05~~ 0500
PHONE: 910-451-2390 | WEATHER:
LEL: | Well Locked: [X] Yes
PID: | Sampling Device: Bailer | ☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	19.39	19.19	19.55	19.53			(°C)
Specific Conductivity	0.291	0.308	0.315	0.314			(mS/cm°)
Dissolved Oxygen (DO)	5.37	4.76	2.69	1.69			(mg/L)
PH	3.80	3.78	3.74	3.73			(STD)
ORP	340.4	341.6	336.8	332.7			mV
Turbidity (Turb)	43.5	23.4	15.0	7.8			(NTU)

Depth to Bottom	610.80	(In) (Minus)	Depth to Water	213.96	(In)	=	396.84	HT (in)
Depth to Bottom	50.90	(Ft) (Minus)	Depth to Water	17.83	(Ft)	=	33.07	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			396.84	1	3.14	1246	.0043	5.4		16.1	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED: | DRUM: ☐ | DRUM# | SITE TREATMENT: [X]
OTHER: ☐

Shaw
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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW24
SAMPLE NO.UST820-MW24

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/9/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 810
PHONE: 910-451-2390	WEATHER: Mid 80's Sunny	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

(1.3)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	19.72	19.35	19.19	19.17			(°C)
Specific Conductivity	.103	.108	.121	.123			(mS/cm°)
Dissolved Oxygen (DO)	2.70	1.26	1.08	1.05			(mg/L)
PH	4.68	4.59	4.36	4.30			(STD)
ORP	537.0	531.9	546.3	548.6			mV
Turbidity (Turb)	1336.7	1339.4	1012.0	687.2			(NTU)

20
17
9

4.5

(1.3)

Depth to Bottom	303.00	(In) (Minus)	Depth to Water	194.28	(In)	=	108.72	HT (in)
Depth to Bottom	25.25	(Ft) (Minus)	Depth to Water	16.19	(Ft)	=	9.06	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			108.72	1	3.14	341	.0043	1.5		4.4	6
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Water has a yellow orange color to it.

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW25
SAMPLE NO.UST820-MW25

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/8/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1435
PHONE: 910-451-2390	WEATHER: Mid 80's overcast / Rain	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

(5.5) FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	20.45	19.78	19.80	19.666			(°C)
Specific Conductivity	.556	.545	.583	.628			(mS/cm°)
Dissolved Oxygen (DO)	2.39	.66	.51	.49			(mg/L)
PH	3.60	3.68	3.79	3.80			(STD)
ORP	547.7	517.6	504.7	499.5			mV
Turbidity (Turb)	26.0	.5	-1.0	-1.2			(NTU)

Depth to Bottom	597.36	(In)-(Minus)	Depth to Water	186.12	(In)	=	411.24	HT (in)
Depth to Bottom	49.78	(Ft) (Minus)	Depth to Water	15.51	(Ft)	=	34.27	HT (ft)

50 / 16 / 34 / 17 / 2√34 / 2 / 14 / 5.1/2 / 34.27 / 17 / 15 / 2

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			34.27	1	3.14	1291	.0043	5.6		16.7	18
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: Bldg 820	
WELL NO. MW 26	
SAMPLE NO. UST820- MW26	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace
PHONE: 910-451-2390	WEATHER: Mid 80's Sunny / Hot
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer ☐ No

DATE 8/9/05
TIME 950

FIELD MEASUREMENTS (2)

	1	2	3	4			
Temperature (Temp)	20.47	20.18	20.25	20.46			(°C)
Specific Conductivity	.078	.076	.076	.075			(mS/cm°)
Dissolved Oxygen (DO)	8.31	8.40	8.45	8.43			(mg/L)
PH	5.07	4.92	4.73	4.69			(STD)
ORP	504.3	515.3	525.2	527.3			mV
Turbidity (Turb)	592.3	552.9	548.8	227.9			(NTU)

Depth to Bottom	295.20	(In) (Minus)	Depth to Water	144.00	(In)	=	151.20	HT (in)
Depth to Bottom	24.60	(Ft) (Minus)	Depth to Water	12.00	(Ft)	=	12.60	HT (ft)

25
1 2
13

6.5

2.8/3

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together
d/2 = 1

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			151.20	1	3.14	475	.0043	20		6.1	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW-27
SAMPLE NO.UST820- MW27

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/6/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 0925
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)							(°C)
Specific Conductivity							(mS/cm°)
Dissolved Oxygen (DO)							(mg/L)
PH							(STD)
ORP							mV
Turbidity (Turb)							(NTU)

Depth to Bottom	170.40	(In) (Minus)	Depth to Water	135.60	(In)	=	34.80	HT (in)
Depth to Bottom	14.20	(Ft) (Minus)	Depth to Water	11.30	(Ft)	=	2.9	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			34.80	1	3.14	109	.0043	0.5		1.4	0
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Very low yeald well Did not Purge well Before Sampling. No Field Readings Taken

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW28
SAMPLE NO.UST820- MW28

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/9/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1127
PHONE: 910-451-2390	WEATHER: Upper 80's Partly Cloudy / Hot	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

(5)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)							(°C)
Specific Conductivity							(mS/cm^c)
Dissolved Oxygen (DO)							(mg/L)
PH							(STD)
ORP							mV
Turbidity (Turb)							(NTU)

Depth to Bottom	555.0	(In) (Minus)	Depth to Water	194.52	(In)	=	360.48	HT (in)
Depth to Bottom	46.25	(Ft) (Minus)	Depth to Water	16.21	(Ft)	=	30.04	HT (ft)

46
16
30
5
375

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			360.48	1	3.14	1132	.0043	4.9		14.6	15
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

Vol.

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Grey / Sandy Water during Purge
No readings taken

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: Bldg 820
WELL NO. MW29
SAMPLE NO.UST820- MW29

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/9/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 940
PHONE: 910-451-2390	WEATHER: upper 80's Sunny/hot	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

(6)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	21.44	21.46	21.59	21.63			(°C)
Specific Conductivity	2.082	2.771	2.869	3.002			(mS/cm°)
Dissolved Oxygen (DO)	4.45	-0.15	-1.08	-1.02			(mg/L)
PH	3.91	3.73	3.73	3.73			(STD)
ORP	538.4	515.9	511.7	507.6			mV
Turbidity (Turb)	1308.9	909.6	773.2	613.4			(NTU)

Depth to Bottom	612.48	(In) (Minus)	Depth to Water	165.00	(In)	=	447.48	HT (in)
Depth to Bottom	51.04	(Ft) (Minus)	Depth to Water	13.75	(Ft)	=	37.29	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)
r = 1 Multiply Together

d/2 = 1	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			447.48	1	3.14	1405	.0043	6.0	18.1	20
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

APPENDIX C

FEBRUARY 2005 GROUNDWATER LABORATORY ANALYTICAL REPORTS

Southeast
ACCUTEST.
Laboratories

03/08/05

Technical Report for

Field Support Service Inc

Camp Lejeune-BM 820

110385

Accutest Job Number: F30069

Sampling Date: 02/26/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **37**

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Field Support Service Inc

Job No: F30069

Camp Lejeune-BM 820
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F30069-1	02/26/05	11:15	MM	03/01/05	AQ	Ground Water	UST820-MW25
F30069-2	02/26/05	12:00	MM	03/01/05	AQ	Ground Water	UST820-MW024
F30069-3	02/26/05	12:45	MM	03/01/05	AQ	Ground Water	UST820-MW26
F30069-4	02/26/05	13:30	MM	03/01/05	AQ	Ground Water	UST820-MW19
F30069-5	02/26/05	14:15	MM	03/01/05	AQ	Ground Water	UST820-MW18
F30069-6	02/26/05	00:00	MM	03/01/05	AQ	Trip Blank Water	UST820-TB-022605

Accutest LabLink@33153 10:28 08-Mar-2005

Report of Analysis

Client Sample ID:	UST820-MW25		
Lab Sample ID:	F30069-1	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L025349.D	1	03/02/05	ME	03/02/05	OP12601	SL1335
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	1.6	4.8	0.95	ug/l	J
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		49-119%
321-60-8	2-Fluorobiphenyl	92%		45-118%
1718-51-0	Terphenyl-d14	79%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST820-MW25		
Lab Sample ID:	F30069-1	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ001954.D	1	03/01/05	CV	n/a	n/a	GQQ88
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.2	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	9.2	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	26.2	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	23.8	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		59-129%
98-08-8	aaa-Trifluorotoluene	87%		73-122%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST820-MW25		
Lab Sample ID:	F30069-1	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	<5.0	5.0	ug/l	1	03/02/05	03/03/05	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4228
(2) Prep QC Batch: MP7740

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	UST820-MW024		
Lab Sample ID:	F30069-2	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L025350.D	1	03/03/05	ME	03/02/05	OP12601	SL1335
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	0.97	4.8	0.95	ug/l	J
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		49-119%
321-60-8	2-Fluorobiphenyl	87%		45-118%
1718-51-0	Terphenyl-d14	80%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST820-MW024		
Lab Sample ID:	F30069-2	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ001955.D	1	03/01/05	CV	n/a	n/a	GQQ88
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.9	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	6.2	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	15.0	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	16.1	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		59-129%
98-08-8	aaa-Trifluorotoluene	89%		73-122%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST820-MW024		
Lab Sample ID:	F30069-2	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	5.9	5.0	ug/l	1	03/02/05	03/03/05	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4228
(2) Prep QC Batch: MP7740

RL = Reporting Limit

Report of Analysis

Client Sample ID:	UST820-MW26		
Lab Sample ID:	F30069-3	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L025351.D	1	03/03/05	ME	03/02/05	OP12601	SL1335
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	1.0	4.8	0.95	ug/l	J
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		49-119%
321-60-8	2-Fluorobiphenyl	90%		45-118%
1718-51-0	Terphenyl-d14	81%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST820-MW26		
Lab Sample ID:	F30069-3	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ001956.D	1	03/01/05	CV	n/a	n/a	GQQ88
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2.1	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	6.5	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.9	1.0	0.50	ug/l	
108-88-3	Toluene	15.6	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	16.7	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		59-129%
98-08-8	aaa-Trifluorotoluene	87%		73-122%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST820-MW26		
Lab Sample ID:	F30069-3	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	9.6	5.0	ug/l	1	03/02/05	03/03/05	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4228
(2) Prep QC Batch: MP7740

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	UST820-MW19		
Lab Sample ID:	F30069-4	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L025352.D	1	03/03/05	ME	03/02/05	OP12601	SL1335
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
91-20-3	Naphthalene	1.5	4.8	0.95	ug/l	J
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		49-119%
321-60-8	2-Fluorobiphenyl	86%		45-118%
1718-51-0	Terphenyl-d14	57%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST820-MW19		
Lab Sample ID:	F30069-4	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ001957.D	1	03/01/05	CV	n/a	n/a	GQQ88
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.1	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	8.3	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.0	1.0	0.50	ug/l	
108-88-3	Toluene	23.1	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	21.8	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		59-129%
98-08-8	aaa-Trifluorotoluene	84%		73-122%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	UST820-MW19		
Lab Sample ID:	F30069-4	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	03/02/05	03/03/05	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4228
(2) Prep QC Batch: MP7740

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	UST820-MW18		
Lab Sample ID:	F30069-5	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L025353.D	1	03/03/05	ME	03/02/05	OP12601	SL1335
Run #2							

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

BN PAH List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		49-119%
321-60-8	2-Fluorobiphenyl	88%		45-118%
1718-51-0	Terphenyl-d14	83%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@33153 10:28 08-Mar-2005

Report of Analysis

Client Sample ID:	UST820-MW18		
Lab Sample ID:	F30069-5	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ001958.D	1	03/01/05	CV	n/a	n/a	GQQ88
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.2	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	5.0	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	10.5	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	13.2	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		59-129%
98-08-8	aaa-Trifluorotoluene	89%		73-122%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@33153 10:28 08-Mar-2005

Report of Analysis

Client Sample ID:	UST820-MW18		
Lab Sample ID:	F30069-5	Date Sampled:	02/26/05
Matrix:	AQ - Ground Water	Date Received:	03/01/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	<100	100	ug/l	1	03/02/05	03/03/05	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4228
(2) Prep QC Batch: MP7740

(a) Elevated reporting limits due to matrix interference.

RL = Reporting Limit

Accutest LabLink@33153 10:28 08-Mar-2005

Report of Analysis

Client Sample ID:	UST820-TB-022605		
Lab Sample ID:	F30069-6	Date Sampled:	02/26/05
Matrix:	AQ - Trip Blank Water	Date Received:	03/01/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ001953.D	1	03/01/05	CV	n/a	n/a	GQQ88
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		59-129%
98-08-8	aaa-Trifluorotoluene	88%		73-122%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC Number:
110385-820-022805

CHAIN-OF-CUSTODY RECORD F30069

Shaw
Shaw Environmental & Infrastructure, Inc.

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

| | | |

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F30069 CLIENT: Shaw E+I PROJECT: Camp Lejeune - BM 820

DATE/TIME RECEIVED: 3/1/05 9:00 # OF COOLERS RECEIVED: 2 COOLER TEMPS: 2.4 2.0

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: _____

COOLER INFORMATION

- [X] CUSTODY SEAL NOT PRESENT (INTACT)
- [ ] NO COC RECEIVED
- [ ] ANALYSES NOT MARKED ON COC
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SOIL INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] SAMPLE RECEIVED PAST HOLD TIME
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: 3/1/05

TECHNICIAN SIGNATURE/DATE: Steven Emerson 3-1-05

ASBD02/04/05

3.1 3

F30069: Chain of Custody
Page 2 of 2

APPENDIX D

MAY 2005 GROUNDWATER LABORATORY ANALYTICAL REPORTS

Southeast
ACCUTEST.
Laboratories

06/06/05

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-BM 820

112768

Accutest Job Number: F32144

Sampling Date: 05/25/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **59**

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Shaw E & I, Inc.

Job No: F32144

Camp Lejeune-BM 820
Project No: 112768

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F32144-1	05/25/05	13:30	MM	05/26/05	AQ	Ground Water	UST820-MW28
F32144-2	05/25/05	14:45	MM	05/26/05	AQ	Ground Water	UST820-MW29
F32144-3	05/25/05	00:00	MM	05/26/05	AQ	Trip Blank Water	TRIP BLANK

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW28		
Lab Sample ID:	F32144-1	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0004551.D	50	06/01/05	CV	n/a	n/a	VN198
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1300	250	ug/l	
71-43-2	Benzene	1110	50	25	ug/l	
75-27-4	Bromodichloromethane	ND	50	25	ug/l	
75-25-2	Bromoform	ND	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
75-15-0	Carbon disulfide	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	50	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	25	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	25	ug/l	
124-48-1	Dibromochloromethane	ND	50	20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	15	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	ND	50	25	ug/l	
591-78-6	2-Hexanone	ND	250	130	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	130	ug/l	
74-83-9	Methyl bromide	ND	100	50	ug/l	
74-87-3	Methyl chloride	ND	100	50	ug/l	
75-09-2	Methylene chloride	ND	250	50	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	130	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3350	50	25	ug/l	
100-42-5	Styrene	ND	50	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	15	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	25	ug/l	
127-18-4	Tetrachloroethylene	ND	50	25	ug/l	
108-88-3	Toluene	ND	50	25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW28		
Lab Sample ID:	F32144-1	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	50	25	ug/l	
75-01-4	Vinyl chloride	ND	50	25	ug/l	
1330-20-7	Xylene (total)	ND	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		86-115%
17060-07-0	1,2-Dichloroethane-D4	104%		73-126%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	101%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW28		
Lab Sample ID:	F32144-1	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026206.D	1	05/27/05	ME	05/27/05	OP13435	SL1381
Run #2							

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

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	24	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	1.9	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	4.8	ug/l	
95-48-7	2-Methylphenol	ND	4.8	1.9	ug/l	
	3&4-Methylphenol	ND	4.8	1.9	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	24	9.5	ug/l	
87-86-5	Pentachlorophenol	ND	24	9.5	ug/l	
108-95-2	Phenol	ND	4.8	1.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	1.9	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	1.9	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.95	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.9	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	9.5	3.8	ug/l	
86-74-8	Carbazole	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.95	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	1.9	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW28		
Lab Sample ID:	F32144-1	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.95	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.95	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	1.9	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	1.9	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	4.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.95	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	1.9	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	2.4	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.9	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	1.9	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	2.4	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	0.95	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.95	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	1.9	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	1.9	ug/l	
67-72-1	Hexachloroethane	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
78-59-1	Isophorone	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
88-74-4	2-Nitroaniline	ND	9.5	3.8	ug/l	
99-09-2	3-Nitroaniline	ND	9.5	3.8	ug/l	
100-01-6	4-Nitroaniline	ND	9.5	3.8	ug/l	
91-20-3	Naphthalene	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.95	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	1.9	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		19-90%
4165-62-2	Phenol-d5	27%		10-68%
118-79-6	2,4,6-Tribromophenol	87%		36-137%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW28		
Lab Sample ID:	F32144-1	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		49-119%
321-60-8	2-Fluorobiphenyl	78%		45-118%
1718-51-0	Terphenyl-d14	76%		46-135%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW28		
Lab Sample ID:	F32144-1	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	MADEP VPH	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV017203.D	1	05/31/05	RAW	n/a	n/a	GUV1016
Run #2	UV017212.D	5	06/01/05	RAW	n/a	n/a	GUV1017

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

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	3280 [a]	380	250	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	55	30	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	20	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	89%	88%	70-130%
460-00-4	BFB	86%	83%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW28		
Lab Sample ID:	F32144-1	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	MADEP-EPH-98-1 SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF17032.D	1	06/04/05	SM	06/02/05	OP13491	GZF802
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	190	150	ug/l	
	C9-C18 Aliphatics	ND	190	190	ug/l	
	C19-C36 Aliphatics	ND	190	190	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	38%		40-140%
580-13-2	2-Bromonaphthalene	66%		40-140%
84-15-1	o-Terphenyl	94%		40-140%
321-60-8	2-Fluorobiphenyl	99%		40-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW29		
Lab Sample ID:	F32144-2	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0005170.D	1	05/31/05	CV	n/a	n/a	VM222
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
71-43-2	Benzene	29.6	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	2.6	1.0	0.50	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	31.8	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW29		
Lab Sample ID:	F32144-2	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		86-115%
17060-07-0	1,2-Dichloroethane-D4	112%		73-126%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	103%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW29		
Lab Sample ID:	F32144-2	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026207.D	1	05/27/05	ME	05/27/05	OP13435	SL1381
Run #2							

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

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	24	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	1.9	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	4.8	ug/l	
95-48-7	2-Methylphenol	ND	4.8	1.9	ug/l	
	3&4-Methylphenol	ND	4.8	1.9	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	24	9.5	ug/l	
87-86-5	Pentachlorophenol	ND	24	9.5	ug/l	
108-95-2	Phenol	ND	4.8	1.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	1.9	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	1.9	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.95	ug/l	
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.95	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.9	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	9.5	3.8	ug/l	
86-74-8	Carbazole	ND	4.8	0.95	ug/l	
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.95	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	1.9	ug/l	

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW29		
Lab Sample ID:	F32144-2	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.95	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.95	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	1.9	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	1.9	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	4.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.95	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.8	1.9	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	2.4	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.9	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	1.9	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	2.4	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	ND	4.8	0.95	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.95	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	1.9	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	1.9	ug/l	
67-72-1	Hexachloroethane	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
78-59-1	Isophorone	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.95	ug/l	
88-74-4	2-Nitroaniline	ND	9.5	3.8	ug/l	
99-09-2	3-Nitroaniline	ND	9.5	3.8	ug/l	
100-01-6	4-Nitroaniline	ND	9.5	3.8	ug/l	
91-20-3	Naphthalene	ND	4.8	0.95	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.95	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	1.9	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		19-90%
4165-62-2	Phenol-d5	35%		10-68%
118-79-6	2,4,6-Tribromophenol	90%		36-137%

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Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW29		
Lab Sample ID:	F32144-2	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%		49-119%
321-60-8	2-Fluorobiphenyl	85%		45-118%
1718-51-0	Terphenyl-d14	77%		46-135%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW29		
Lab Sample ID:	F32144-2	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	MADEP VPH	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV017213.D	1	06/01/05	RAW	n/a	n/a	GUV1017
Run #2	UV017205.D	1	05/31/05	RAW	n/a	n/a	GUV1016

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

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	75	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	55	30	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	20	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	86%	86%	70-130%
460-00-4	BFB	84%	85%	70-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW29		
Lab Sample ID:	F32144-2	Date Sampled:	05/25/05
Matrix:	AQ - Ground Water	Date Received:	05/26/05
Method:	MADEP-EPH-98-1 SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF17035.D	1	06/04/05	SM	06/02/05	OP13491	GZF802
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	190	140	ug/l	
	C9-C18 Aliphatics	ND	190	190	ug/l	
	C19-C36 Aliphatics	ND	190	190	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	54%		40-140%
580-13-2	2-Bromonaphthalene	66%		40-140%
84-15-1	o-Terphenyl	92%		40-140%
321-60-8	2-Fluorobiphenyl	99%		40-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F32144-3	Date Sampled:	05/25/05
Matrix:	AQ - Trip Blank Water	Date Received:	05/26/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0005154.D	1	05/31/05	CV	n/a	n/a	VM222
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F32144-3	Date Sampled:	05/25/05
Matrix:	AQ - Trip Blank Water	Date Received:	05/26/05
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		86-115%
17060-07-0	1,2-Dichloroethane-D4	106%		73-126%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	104%		83-119%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC Number:
112768-820-052505

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD F32144

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving LAB: Accutest

Project Name	Project Location		
CAMP LEJEUNE - BM 820	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
112768	Mark Martin		
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: 8260	8270	MADEP EPH	MADEP VPH
1	UST820-MW28	5/25/05	13:30		X	UST820-MW28	10	X	X	X	X
2	UST820-MW29	5/25/05	14:45		X	UST820-MW29	10	X	X	X	X
3	TripBlank-052505	5/25/05	—		X	Trip Blank	2	X			
4											
5											
6											
7											
8											
9											
10											

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1-3		FedEx 8508 6831 4558	5/25/05	16:00
2		FX		5/26/05	9:00
3					

Remarks

7 Day TAT
Due 6/2/05

3.0

3.1 3

F32144: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F32144 CLIENT: Shaw E&I PROJECT: Camp Lejeune - BM 820

DATE/TIME RECEIVED: 5/26/05 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 3.0

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8508 6831 4558

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT/INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSES NOT MARKED ON COC
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] SAMPLE RECEIVED PAST HOLD TIME
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: 5/26/05

TECHNICIAN SIGNATURE/DATE: Steven Canning 5-26-05

ASBD02/04/05

F32144: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST.
Laboratories

06/08/05

Technical Report for

Field Support Service Inc

Camp Lejeune-BM 820

110385

Accutest Job Number: F32196

Sampling Date: 05/27/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **30**

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

Field Support Service Inc

Job No: F32196

Camp Lejeune-BM 820
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F32196-1	05/27/05	10:30	MM	05/28/05	AQ	Ground Water	UST820-MW25
F32196-2	05/27/05	11:30	MM	05/28/05	AQ	Ground Water	UST820-MW024
F32196-3	05/27/05	12:30	MM	05/28/05	AQ	Ground Water	UST820-MW26
F32196-4	05/27/05	00:00	MM	05/28/05	AQ	Ground Water	UST820-TB-052705

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW25		
Lab Sample ID:	F32196-1	Date Sampled:	05/27/05
Matrix:	AQ - Ground Water	Date Received:	05/28/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026251.D	1	06/02/05	ME	06/01/05	OP13476	SL1383
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	70%		49-119%
321-60-8	2-Fluorobiphenyl	77%		45-118%
1718-51-0	Terphenyl-d14	87%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW25		
Lab Sample ID:	F32196-1	Date Sampled:	05/27/05
Matrix:	AQ - Ground Water	Date Received:	05/28/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD060978.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.65	1.0	0.50	ug/l	J
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		71-130%
98-08-8	aaa-Trifluorotoluene	81%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW25		
Lab Sample ID:	F32196-1	Date Sampled:	05/27/05
Matrix:	AQ - Ground Water	Date Received:	05/28/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	06/03/05	06/06/05	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4372
(2) Prep QC Batch: MP8099

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW024		
Lab Sample ID:	F32196-2	Date Sampled:	05/27/05
Matrix:	AQ - Ground Water	Date Received:	05/28/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026254.D	1	06/02/05	ME	06/01/05	OP13476	SL1383
Run #2							

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

BN PAH List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		49-119%
321-60-8	2-Fluorobiphenyl	81%		45-118%
1718-51-0	Terphenyl-d14	82%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW024		
Lab Sample ID:	F32196-2	Date Sampled:	05/27/05
Matrix:	AQ - Ground Water	Date Received:	05/28/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD060979.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	85%		71-130%
98-08-8	aaa-Trifluorotoluene	82%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW024		
Lab Sample ID:	F32196-2	Date Sampled:	05/27/05
Matrix:	AQ - Ground Water	Date Received:	05/28/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	06/03/05	06/06/05	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4372
(2) Prep QC Batch: MP8099

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW26		
Lab Sample ID:	F32196-3	Date Sampled:	05/27/05
Matrix:	AQ - Ground Water	Date Received:	05/28/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026255.D	1	06/02/05	ME	06/01/05	OP13476	SL1383
Run #2							

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

BN PAH List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		49-119%
321-60-8	2-Fluorobiphenyl	86%		45-118%
1718-51-0	Terphenyl-d14	80%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW26		
Lab Sample ID:	F32196-3	Date Sampled:	05/27/05
Matrix:	AQ - Ground Water	Date Received:	05/28/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD060980.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	81%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW26		
Lab Sample ID:	F32196-3	Date Sampled:	05/27/05
Matrix:	AQ - Ground Water	Date Received:	05/28/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	06/03/05	06/06/05	DM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4372
(2) Prep QC Batch: MP8099

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-TB-052705		
Lab Sample ID:	F32196-4	Date Sampled:	05/27/05
Matrix:	AQ - Ground Water	Date Received:	05/28/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD060981.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	81%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F32196

COC Number:
110385-820-052705

CHAIN-OF-CUSTODY RECORD

Shaw
Shaw Environmental & Infrastructure, Inc.

3.1
3

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Project Name: CAMP LEJEUNE - BM 820		Project Location: CAMP LEJEUNE, NC			Receiving LAB: Accutest
Project Number: 110385	Contact: Mark Martin	P.O. Number: FSSI	Reviewed by:		Analysis Desired
Client Rep: US NAVY - LANTDIV		Project Manager: Ron Kenyon			

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOC 602	PAH 625	Lead
1	UST820-MW25	5/27/05	10:30		X	UST820-MW25	7	X	X	X
2	UST820-MW024	5/27/05	11:30		X	UST820-MW024	7	X	X	X
3	UST820-MW26	5/27/05	12:30		X	UST820-MW26	7	X	X	X
4	UST820-TB-052705	11/22/04			X	Trip Blank	2	X		
5										
6										
7										
8										
9										
10										

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 4		UPS 1Z71V 098 41 9414 2223	5/27/05	16:00	14 Day TAT
2		UPS		5/28/05	9:00	
3						

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F32196: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F32196 CLIENT: Shaw CFI PROJECT: 110385

DATE/TIME RECEIVED: 5/27/05 9AM # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2-C

METHOD OF DELIVERY: FEDEX (UPS) ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: FL3289-02 C12711098741944422 23

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT/INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSES NOT MARKED ON COC
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SOIL INFORMATION

NUMBER OF ENCORES ? 8

NUMBER OF 5035 FIELD KITS ? 8

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] SAMPLE RECEIVED PAST HOLD TIME
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: 5/28/05

TECHNICIAN SIGNATURE/DATE: 5-28-05

ASRD

3.1 3

F32196: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST.
Laboratories

06/13/05

Technical Report for

Field Support Service Inc

Camp Lejeune-BM 820

110385

Accutest Job Number: F32238

Sampling Date: 05/31/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **59**

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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6.2: Prep QC MP8119: Pb 55

Accutest Laboratories

Sample Summary

Field Support Service Inc

Job No: F32238

Camp Lejeune-BM 820
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F32238-1	05/31/05	09:30	MM	06/02/05	AQ	Ground Water	UST820-MW19
F32238-2	05/31/05	10:30	MM	06/02/05	AQ	Ground Water	UST820-MW18
F32238-3	05/31/05	11:30	MM	06/02/05	AQ	Ground Water	UST820-MW21
F32238-4	05/31/05	12:30	MM	06/02/05	AQ	Ground Water	UST820-MW20
F32238-5	05/31/05	13:30	MM	06/02/05	AQ	Ground Water	UST820-MW14
F32238-6	05/31/05	14:30	MM	06/02/05	AQ	Ground Water	UST820-MW08
F32238-7	05/31/05	15:30	MM	06/02/05	AQ	Ground Water	UST820-MW07
F32238-8	05/31/05	15:30	MM	06/02/05	AQ	Ground Water	UST820-MW07D
F32238-9	05/31/05	16:30	MM	06/02/05	AQ	Ground Water	UST820-MW23
F32238-10	05/31/05	17:30	MM	06/02/05	AQ	Ground Water	UST820-MW22
F32238-11	05/31/05	00:00	MM	06/02/05	AQ	Trip Blank Water	UST820-TB-112204

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW19		
Lab Sample ID:	F32238-1	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026356.D	1	06/08/05	ME	06/03/05	OP13498	SL1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		49-119%
321-60-8	2-Fluorobiphenyl	83%		45-118%
1718-51-0	Terphenyl-d14	61%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW19		
Lab Sample ID:	F32238-1	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD061014.D	1	06/08/05	AA	n/a	n/a	GCD2517
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.75	1.0	0.50	ug/l	J
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	0.60	1.0	0.50	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	9.0	1.0	0.50	ug/l	
108-88-3	Toluene	1.0	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		71-130%
98-08-8	aaa-Trifluorotoluene	96%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW19		
Lab Sample ID:	F32238-1	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	19.9	5.0	ug/l	1	06/08/05	06/09/05	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4379
(2) Prep QC Batch: MP8118

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW18		
Lab Sample ID:	F32238-2	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026357.D	1	06/08/05	ME	06/03/05	OP13498	SL1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		49-119%
321-60-8	2-Fluorobiphenyl	85%		45-118%
1718-51-0	Terphenyl-d14	78%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW18		
Lab Sample ID:	F32238-2	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD060983.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	80%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW18		
Lab Sample ID:	F32238-2	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	06/08/05	06/09/05	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4379
(2) Prep QC Batch: MP8118

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW21		
Lab Sample ID:	F32238-3	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026358.D	1	06/08/05	ME	06/03/05	OP13498	SL1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		49-119%
321-60-8	2-Fluorobiphenyl	74%		45-118%
1718-51-0	Terphenyl-d14	80%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW21		
Lab Sample ID:	F32238-3	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD060984.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.87	1.0	0.50	ug/l	J
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	81%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW21		
Lab Sample ID:	F32238-3	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	06/08/05	06/09/05	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4379
(2) Prep QC Batch: MP8118

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW20		
Lab Sample ID:	F32238-4	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026359.D	1	06/08/05	ME	06/03/05	OP13498	SL1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		49-119%
321-60-8	2-Fluorobiphenyl	89%		45-118%
1718-51-0	Terphenyl-d14	86%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW20		
Lab Sample ID:	F32238-4	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD060985.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		71-130%
98-08-8	aaa-Trifluorotoluene	81%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW20		
Lab Sample ID:	F32238-4	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	06/08/05	06/09/05	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4379
(2) Prep QC Batch: MP8118

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW14		
Lab Sample ID:	F32238-5	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026360.D	1	06/08/05	ME	06/03/05	OP13498	SL1389
Run #2							

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

BN PAH List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		49-119%
321-60-8	2-Fluorobiphenyl	85%		45-118%
1718-51-0	Terphenyl-d14	79%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW14		
Lab Sample ID:	F32238-5	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD060986.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.60	1.0	0.50	ug/l	J
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	81%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW14		
Lab Sample ID:	F32238-5	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	06/08/05	06/09/05	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4379
(2) Prep QC Batch: MP8119

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW08		
Lab Sample ID:	F32238-6	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026361.D	1	06/08/05	ME	06/03/05	OP13498	SL1389
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.97	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-20-3	Naphthalene	ND	4.9	0.97	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		49-119%
321-60-8	2-Fluorobiphenyl	83%		45-118%
1718-51-0	Terphenyl-d14	81%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW08		
Lab Sample ID:	F32238-6	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD060987.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.0	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	82%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW08		
Lab Sample ID:	F32238-6	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	8.5	5.0	ug/l	1	06/08/05	06/09/05	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4379
(2) Prep QC Batch: MP8119

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW07		
Lab Sample ID:	F32238-7	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026362.D	1	06/08/05	ME	06/03/05	OP13498	SL1389
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
91-20-3	Naphthalene	ND	4.8	0.96	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		49-119%
321-60-8	2-Fluorobiphenyl	73%		45-118%
1718-51-0	Terphenyl-d14	72%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW07		
Lab Sample ID:	F32238-7	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD060989.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	81%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW07		
Lab Sample ID:	F32238-7	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.3	5.0	ug/l	1	06/08/05	06/09/05	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4379
(2) Prep QC Batch: MP8119

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW07D		
Lab Sample ID:	F32238-8	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026363.D	1	06/08/05	ME	06/03/05	OP13498	SL1389
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.97	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-20-3	Naphthalene	ND	4.9	0.97	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		49-119%
321-60-8	2-Fluorobiphenyl	80%		45-118%
1718-51-0	Terphenyl-d14	76%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW07D		
Lab Sample ID:	F32238-8	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD060992.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		71-130%
98-08-8	aaa-Trifluorotoluene	80%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW07D		
Lab Sample ID:	F32238-8	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.7	5.0	ug/l	1	06/08/05	06/09/05	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4379
(2) Prep QC Batch: MP8119

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW23		
Lab Sample ID:	F32238-9	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026364.D	1	06/09/05	ME	06/03/05	OP13498	SL1389
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.97	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.97	ug/l	
91-20-3	Naphthalene	ND	4.9	0.97	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		49-119%
321-60-8	2-Fluorobiphenyl	70%		45-118%
1718-51-0	Terphenyl-d14	74%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW23		
Lab Sample ID:	F32238-9	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	CD060993.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.9	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	80%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW23		
Lab Sample ID:	F32238-9	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	06/08/05	06/09/05	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4379
(2) Prep QC Batch: MP8119

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW22		
Lab Sample ID:	F32238-10	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026365.D	1	06/09/05	ME	06/03/05	OP13498	SL1389
Run #2							

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

BN PAH List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		49-119%
321-60-8	2-Fluorobiphenyl	63%		45-118%
1718-51-0	Terphenyl-d14	75%		46-135%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW22		
Lab Sample ID:	F32238-10	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD060994.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		71-130%
98-08-8	aaa-Trifluorotoluene	81%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW22		
Lab Sample ID:	F32238-10	Date Sampled:	05/31/05
Matrix:	AQ - Ground Water	Date Received:	06/02/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	06/08/05	06/09/05	RS	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4379
(2) Prep QC Batch: MP8119

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-TB-112204		
Lab Sample ID:	F32238-11	Date Sampled:	05/31/05
Matrix:	AQ - Trip Blank Water	Date Received:	06/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD060995.D	1	06/06/05	RAW	n/a	n/a	GCD2515
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	81%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F32238

COC Number:
110385-820-053105

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving LAB: Accutest

Project Name	Project Location		
CAMP LEJEUNE - BM 820	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
110385	Mark Martin	FSSI	
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: VOC 602	PAH 625	Lead
1	UST820-MW19	5/31/05	9:30		X	UST820-MW19	6	X	X	X
2	UST820-MW18	5/31/05	10:30		X	UST820-MW18	6	X	X	X
3	UST820-MW21	5/31/05	11:30		X	UST820-MW21	6	X	X	X
4	UST820-MW20	5/31/05	12:30		X	UST820-MW20	6	X	X	X
5	UST820-MW14	5/31/05	13:30		X	UST820-MW14	6	X	X	X
6	UST820-MW08	5/31/05	14:30		X	UST820-MW08	6	X	X	X
7	UST820-MW07	5/31/05	15:30		X	UST820-MW07	6	X	X	X
8	UST820-MW07D	5/31/05	15:30		X	UST820-MW07 Dup	6	X	X	X
9	UST820-MW23	5/31/05	16:30		X	UST820-MW23	6	X	X	X
10	UST820-MW22	5/31/05	17:30		X	UST820-MW22	6	X	X	X
11	UST820-TB-112204	5/31/05			X	Trip Blank	2	X		

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 11		UPS 1Z71V 098 15 9033 9434, 1Z71V 098 15 9129 5846, 1Z71V 098 15 9099 5458	6/1/05	16:00	14 Day TAT
2		UPS		6/2/05	08:00	
3						

2.6 3.2 3.0

F32238: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F32238 CLIENT: SHAW C+I PROJECT: 110385

DATE/TIME RECEIVED: 6-2-05 08:10 # OF COOLERS RECEIVED: 3 COOLER TEMPS: 3.2 3.0 2.6

METHOD OF DELIVERY: FEDEX (UPS) ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT/INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSES NOT MARKED ON COC
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SOIL INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] SAMPLE RECEIVED PAST HOLD TIME
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE CP 6/2/05 TECHNICIAN SIGNATURE/DATE

ASBD02/04/05

F32238: Chain of Custody
Page 2 of 2

APPENDIX E

AUGUST 2005 GROUNDWATER LABORATORY ANALYTICAL REPORTS

Southeast
ACCUTEST.
Laboratories

08/22/05

Technical Report for

Field Support Service Inc

Camp Lejeune-BM 820

110385

Accutest Job Number: F33881

Sampling Date: 08/06/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **52**

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

Field Support Service Inc

Job No: F33881

Camp Lejeune-BM 820
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F33881-1	08/06/05	09:54	MM	08/09/05	AQ	Ground Water	UST820-MW02
F33881-2	08/06/05	09:45	MM	08/09/05	AQ	Ground Water	UST820-MW05
F33881-3	08/06/05	11:10	MM	08/09/05	AQ	Ground Water	UST820-MW09
F33881-4	08/06/05	13:52	MM	08/09/05	AQ	Ground Water	UST820-MW09D
F33881-5	08/06/05	14:37	MM	08/09/05	AQ	Ground Water	UST820-MW13
F33881-6	08/06/05	12:15	MM	08/09/05	AQ	Ground Water	UST820-MW15
F33881-7	08/06/05	09:25	MM	08/09/05	AQ	Ground Water	UST820-MW27

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW02		
Lab Sample ID:	F33881-1	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053724.D	1	08/12/05	TD	n/a	n/a	GEF3743
Run #2 [a]	EF053789.D	5	08/16/05	TD	n/a	n/a	GEF3745

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

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	169 [b]	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	7.0	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.3	1.0	0.50	ug/l	
108-88-3	Toluene	52.3	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	97.8	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%	95%	71-130%
98-08-8	aaa-Trifluorotoluene	105%	92%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW02		
Lab Sample ID:	F33881-1	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007258.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	10.2	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	61.8	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	63.6	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	106%		36-114%
92-94-4	p-Terphenyl	73%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW02		
Lab Sample ID:	F33881-1	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW05		
Lab Sample ID:	F33881-2	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053697.D	1	08/11/05	TD	n/a	n/a	GEF3740
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		71-130%
98-08-8	aaa-Trifluorotoluene	95%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW05		
Lab Sample ID:	F33881-2	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007259.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.97	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	0.078	0.19	0.049	ug/l	J
50-32-8	Benzo(a)pyrene	0.14	0.19	0.097	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.14	0.19	0.049	ug/l	J
191-24-2	Benzo(g,h,i)perylene	0.15	0.19	0.097	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.049	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.49	ug/l	
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.17	0.19	0.049	ug/l	J
91-20-3	Naphthalene	ND	1.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.49	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	ND	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		36-114%
92-94-4	p-Terphenyl	76%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW05		
Lab Sample ID:	F33881-2	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW09		
Lab Sample ID:	F33881-3	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053700.D	1	08/11/05	TD	n/a	n/a	GEF3740
Run #2 [a]	EF053795.D	50	08/16/05	TD	n/a	n/a	GEF3745

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

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1820 [b]	50	25	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	4.8	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	168 [b]	50	25	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2410 [b]	50	25	ug/l	
108-88-3	Toluene	224 [b]	50	25	ug/l	
1330-20-7	Xylenes (total)	297	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%	91%	71-130%
98-08-8	aaa-Trifluorotoluene	100%	92%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW09		
Lab Sample ID:	F33881-3	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007262.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2 [a]	AA026041.D	1	08/17/05	MRE	08/17/05	OP14149	GAA1213

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2	1030 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.98	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.98	ug/l	
120-12-7	Anthracene	ND	2.0	0.98	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.098	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.098	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.098	ug/l	
218-01-9	Chrysene	ND	2.0	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.049	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.49	ug/l	
86-73-7	Fluorene	ND	2.0	0.98	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.049	ug/l	
91-20-3	Naphthalene	13.9	2.0	0.98	ug/l	
90-12-0	1-Methylnaphthalene	0.97	2.0	0.49	ug/l	J
91-57-6	2-Methylnaphthalene	1.1	2.0	0.49	ug/l	J
85-01-8	Phenanthrene	ND	2.0	0.98	ug/l	
129-00-0	Pyrene	ND	2.0	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	55%	62%	36-114%
92-94-4	p-Terphenyl	26% [b]	31%	31-121%

(a) Confirmation run.
(b) Confirmed by re-extraction and reanalysis beyond holdtime.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW09		
Lab Sample ID:	F33881-3	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	< 20	20	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

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

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW09D		
Lab Sample ID:	F33881-4	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053735.D	1	08/12/05	TD	n/a	n/a	GEF3743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		71-130%
98-08-8	aaa-Trifluorotoluene	89%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW09D		
Lab Sample ID:	F33881-4	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007263.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		36-114%
92-94-4	p-Terphenyl	68%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW09D		
Lab Sample ID:	F33881-4	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW13		
Lab Sample ID:	F33881-5	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053736.D	1	08/12/05	TD	n/a	n/a	GEF3743
Run #2 [a]	EF053797.D	2	08/16/05	TD	n/a	n/a	GEF3745

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

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.8	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	21.7	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	41.6	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	148 [b]	6.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%	105%	71-130%
460-00-4	4-Bromofluorobenzene	102%	94%	71-130%
98-08-8	aaa-Trifluorotoluene	96%	98%	71-124%
98-08-8	aaa-Trifluorotoluene	92%	87%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW13		
Lab Sample ID:	F33881-5	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007265.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.97	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	0.089	0.19	0.049	ug/l	J
191-24-2	Benzo(g,h,i)perylene	0.12	0.19	0.097	ug/l	J
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.049	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.49	ug/l	
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	0.19	0.049	ug/l	J
91-20-3	Naphthalene	1.1	1.9	0.97	ug/l	J
90-12-0	1-Methylnaphthalene	ND	1.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.49	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	ND	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		36-114%
92-94-4	p-Terphenyl	81%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW13		
Lab Sample ID:	F33881-5	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	7.3	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW15		
Lab Sample ID:	F33881-6	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053733.D	1	08/12/05	TD	n/a	n/a	GEF3743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	86%		71-130%
98-08-8	aaa-Trifluorotoluene	90%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW15		
Lab Sample ID:	F33881-6	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007266.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	4.0	0.99	ug/l	
208-96-8	Acenaphthylene	ND	4.0	0.99	ug/l	
120-12-7	Anthracene	ND	2.0	0.99	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.099	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.099	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.099	ug/l	
218-01-9	Chrysene	ND	2.0	0.99	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.050	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.50	ug/l	
86-73-7	Fluorene	ND	2.0	0.99	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.050	ug/l	
91-20-3	Naphthalene	ND	2.0	0.99	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.50	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.50	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.99	ug/l	
129-00-0	Pyrene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		36-114%
92-94-4	p-Terphenyl	82%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW15		
Lab Sample ID:	F33881-6	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8432

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW27		
Lab Sample ID:	F33881-7	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053734.D	1	08/12/05	TD	n/a	n/a	GEF3743
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		71-130%
98-08-8	aaa-Trifluorotoluene	91%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW27		
Lab Sample ID:	F33881-7	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007267.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.98	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.98	ug/l	
120-12-7	Anthracene	ND	2.0	0.98	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.098	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	0.098	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.098	ug/l	
218-01-9	Chrysene	ND	2.0	0.98	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.049	ug/l	
206-44-0	Fluoranthene	ND	2.0	0.49	ug/l	
86-73-7	Fluorene	ND	2.0	0.98	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.049	ug/l	
91-20-3	Naphthalene	ND	2.0	0.98	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.49	ug/l	
85-01-8	Phenanthrene	ND	2.0	0.98	ug/l	
129-00-0	Pyrene	ND	2.0	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	90%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW27		
Lab Sample ID:	F33881-7	Date Sampled:	08/06/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8432

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F33881

COC Number:
110385-820-080805

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving LAB: Accutest

Project Name	Project Location		
CAMP LEJEUNE - BM 820	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
110385	Mark Martin	FSSI	
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOC 602	PAH 610	6010 Lead
(1)	UST820-MW02	8/6/05	9:54		X	UST820-MW02	6	X	X	X
(2)	UST820-MW05	8/6/05	9:45		X	UST820-MW05	6	X	X	X
(3)	UST820-MW09	8/6/05	11:10		X	UST820-MW09	6	X	X	X
(4)	UST820-MW09D	8/6/05	13:52		X	UST820-MW09D	6	X	X	X
(5)	UST820-MW13	8/6/05	14:37		X	UST820-MW13	6	X	X	X
(6)	UST820-MW15	8/6/05	12:15		X	UST820-MW15	6	X	X	X
(7)	UST820-MW27	8/6/05	9:25		X	UST820-MW27	6	X	X	X
8										
9										
10										

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1-7		UPDS Tracking #: 1Z71V0981590126628 1Z71V0981592611831 1Z71V0981592616247 1Z71V0981594323854 1Z71V0981591598662 1Z71V0981591584677	8/8/05	1600 16:00	Please E-mail results to mark.martin@shawgrp.com
2		UPS	Stacy Brown	8-9-05	8:00	

2.6, 3.0, 3.9, 3.2, 2.4, 2.6

F33881: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories
F33881

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F33881 CLIENT: Shaw E+E PROJECT: Bm-820

DATE/TIME RECEIVED: 8-9-05/0900 # OF COOLERS RECEIVED: 6 COOLER TEMPS: 2.6, 3.0, 3.0, 3.2 2.4, 2.6

METHOD OF DELIVERY: FEDEX (UPS) ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 1Z-71V-048-15-9154-4677

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [ ] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: Steven Crown/8-9-05 TECHNICIAN SIGNATURE/DATE:

ASBD06/22/05

3.1

3

F33881: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST
Laboratories

08/17/05

Technical Report for

Field Support Service Inc

Camp Lejeune-BM 820

110385

Accutest Job Number: F33880

Sampling Date: 08/08/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **52**

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Field Support Service Inc

Job No: F33880

Camp Lejeune-BM 820
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F33880-1	08/08/05	08:35	MM	08/09/05	AQ	Ground Water	UST820-MW3
F33880-2	08/08/05	09:53	MM	08/09/05	AQ	Ground Water	UST820-MW6
F33880-3	08/08/05	09:04	MM	08/09/05	AQ	Ground Water	UST820-MW12
F33880-4	08/08/05	12:15	MM	08/09/05	AQ	Ground Water	UST820-MW16
F33880-5	08/08/05	11:35	MM	08/09/05	AQ	Ground Water	UST820-MW17
F33880-6	08/08/05	14:15	MM	08/09/05	AQ	Ground Water	UST820-MW19
F33880-7	08/08/05	14:35	MM	08/09/05	AQ	Ground Water	UST820-MW25
F33880-8	08/08/05	11:47	MM	08/09/05	AQ	Ground Water	UST820-MWPW01
F33880-9	08/08/05	00:00	MM	08/09/05	AQ	Trip Blank Water	UST820-TB-080805
F33880-10	08/08/05	12:15	MM	08/09/05	AQ	Ground Water	UST820-MW16D

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW3		
Lab Sample ID:	F33880-1	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF053703.D	1	08/11/05	TD	n/a	n/a	GEF3742
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.9	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene [b]	ND	35	35	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	71.0	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	7.1	1.0	0.50	ug/l	
108-88-3	Toluene	60.7	1.0	0.50	ug/l	
1330-20-7	Xylenes (total) [c]	407	3.0	1.0	ug/l	E

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		71-130%
98-08-8	aaa-Trifluorotoluene	96%		71-124%

(a) All hits confirmed by GC/MS.
(b) Elevated reporting limits due to matrix interference.
(c) No sample available for reanalysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW3		
Lab Sample ID:	F33880-1	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007248.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	19.8	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	4.4	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	6.2	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	80%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW3		
Lab Sample ID:	F33880-1	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW6		
Lab Sample ID:	F33880-2	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053704.D	1	08/11/05	TD	n/a	n/a	GEF3741
Run #2 [a]	EF053725.D	20	08/12/05	TD	n/a	n/a	GEF3742

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

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	150 [b]	20	10	ug/l	
108-90-7	Chlorobenzene	2.9	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene [c]	ND	80	80	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	1980 [b]	20	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	31.7	1.0	0.50	ug/l	
108-88-3	Toluene	411 [b]	20	10	ug/l	
1330-20-7	Xylenes (total)	1480 [b]	60	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%	94%	71-130%
98-08-8	aaa-Trifluorotoluene	111%	87%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2
(c) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW6		
Lab Sample ID:	F33880-2	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007249.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2 [a]	PP007268.D	4	08/12/05	MRE	08/09/05	OP14078	GPP270

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2	1040 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND [b]	15	3.8	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	281 [b]	7.7	3.8	ug/l	
90-12-0	1-Methylnaphthalene	64.1 [b]	7.7	1.9	ug/l	
91-57-6	2-Methylnaphthalene	133 [b]	7.7	1.9	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%	94%	36-114%
92-94-4	p-Terphenyl	65%	62%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW6		
Lab Sample ID:	F33880-2	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW12		
Lab Sample ID:	F33880-3	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053723.D	1	08/12/05	TD	n/a	n/a	GEF3742
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		71-130%
98-08-8	aaa-Trifluorotoluene	98%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW12		
Lab Sample ID:	F33880-3	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007250.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		36-114%
92-94-4	p-Terphenyl	70%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW12		
Lab Sample ID:	F33880-3	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW16		
Lab Sample ID:	F33880-4	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF053707.D	1	08/11/05	TD	n/a	n/a	GEF3741
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8.6	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.7	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		71-130%
98-08-8	aaa-Trifluorotoluene	83%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW16		
Lab Sample ID:	F33880-4	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007251.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		36-114%
92-94-4	p-Terphenyl	83%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW16		
Lab Sample ID:	F33880-4	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	18.7	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW17		
Lab Sample ID:	F33880-5	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053710.D	1	08/11/05	TD	n/a	n/a	GEF3741
Run #2 [a]	EF053727.D	100	08/12/05	TD	n/a	n/a	GEF3742

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

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	552 [b]	100	50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene [c]	ND	2.0	2.0	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	1.2	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4250 [b]	100	50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	5.1	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	90%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	93%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2
(c) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW17		
Lab Sample ID:	F33880-5	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007252.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	85%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW17		
Lab Sample ID:	F33880-5	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	< 20	20	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

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

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW19		
Lab Sample ID:	F33880-6	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF053722.D	1	08/12/05	TD	n/a	n/a	GEF3742
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.8	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		71-130%
98-08-8	aaa-Trifluorotoluene	99%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW19		
Lab Sample ID:	F33880-6	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007253.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		36-114%
92-94-4	p-Terphenyl	58%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW19		
Lab Sample ID:	F33880-6	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	< 100	100	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

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

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW25		
Lab Sample ID:	F33880-7	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053712.D	1	08/11/05	TD	n/a	n/a	GEF3741
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	86%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW25		
Lab Sample ID:	F33880-7	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007255.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		36-114%
92-94-4	p-Terphenyl	88%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW25		
Lab Sample ID:	F33880-7	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MWPW01		
Lab Sample ID:	F33880-8	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF053713.D	1	08/11/05	TD	n/a	n/a	GEF3741
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	12.2	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene [b]	ND	5.0	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	10.5	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.6	1.0	0.50	ug/l	
108-88-3	Toluene	2.4	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	70.3	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%		71-130%
98-08-8	aaa-Trifluorotoluene	90%		71-124%

(a) All hits confirmed by GC/MS.
(b) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MWPW01		
Lab Sample ID:	F33880-8	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007256.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	1.2	1.9	0.95	ug/l	J
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		36-114%
92-94-4	p-Terphenyl	87%		31-121%

(a) All hits confirmed by spectral match using a diode array detector.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MWPW01		
Lab Sample ID:	F33880-8	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-TB-080805		
Lab Sample ID:	F33880-9	Date Sampled:	08/08/05
Matrix:	AQ - Trip Blank Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053714.D	1	08/11/05	TD	n/a	n/a	GEF3741
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		71-130%
98-08-8	aaa-Trifluorotoluene	90%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW16D		
Lab Sample ID:	F33880-10	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF053715.D	1	08/11/05	TD	n/a	n/a	GEF3741
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8.7	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.8	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	82%		71-130%
98-08-8	aaa-Trifluorotoluene	83%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW16D		
Lab Sample ID:	F33880-10	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007257.D	1	08/12/05	MRE	08/09/05	OP14078	GPP270
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		36-114%
92-94-4	p-Terphenyl	85%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW16D		
Lab Sample ID:	F33880-10	Date Sampled:	08/08/05
Matrix:	AQ - Ground Water	Date Received:	08/09/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	17.2	5.0	ug/l	1	08/12/05	08/15/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4494
(2) Prep QC Batch: MP8431

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F33880

COC Number:
110385-820-080805

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving LAB: Accutest

Project Name	Project Location
CAMP LEJEUNE - BM 820	CAMP LEJEUNE, NC

Project Number	Contact	P.O. Number	Reviewed by
110385	Mark Martin	FSSI	

Client Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOC 602	PAH 610	6010 Lead	Analysis Desired
1	UST820-MW3	8/8/05	8:35		X	UST820-MW3	6	X	X	X	
2	UST820-MW6	8/8/05	9:53		X	UST820-MW6	6	X	X	X	
3	UST820-MW12	8/8/05	9:04		X	UST820-MW12	6	X	X	X	
4	UST820-MW16	8/8/05	12:15		X	UST820-MW16	6	X	X	X	
6	UST820-MW17	8/8/05	11:35		X	UST820-MW17	6	X	X	X	
5	UST820-MW19	8/8/05	14:15		X	UST820-MW19	6	X	X	X	
7	UST820-MW25	8/8/05	14:35		X	UST820-MW25	6	X	X	X	
8	UST820-MWPW01	8/8/05	11:47		X	UST820-MWPW01	6	X	X	X	
9	UST820-TB-080805	8/8/05			X	Trip Blank	1	X			
10											

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1-9		UPDS Tracking #: 1Z71V0981590126628 1Z71V0981592611831 1Z71V0981592616247 1Z71V0981594323854 1Z71V0981591598662 1Z71V0981591584677	8/8/05	16:00	Please E-mail results to mark.martin@shawgrp.com
2		CAPS		8-9-05	8:00	

2.6, 3.0, 3.0, 3.1, 2.4, 2.6

F33880: Chain of Custody
Page 1 of 3

COC Number:
110385-820-080805-2

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

| | | |

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F33880 CLIENT: Shaw E&E PROJECT: Bm-620

DATE/TIME RECEIVED: 8-9-05/ 8:00 # OF COOLERS RECEIVED: 6 COOLER TEMPS: 2.6, 3.0, 3.0, 3.2, 2.4, 2.6

METHOD OF DELIVERY: FEDEX (UPS) ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 12-71V-0948-15-9154-4677

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [X] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [X] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS: Recieved one Amber labeled mw-05, By process of elim. Amber Belongs to mw-7S (7). Amber added to sample. Recieved Sample not oncoc (mw-16D @ 8-8-05/ 12:15) Sample added to end of Job.

TECHNICIAN SIGNATURE/DATE: Steven Brown 8-9-05 TECHNICIAN SIGNATURE/DATE:

ASBD06/22/05

3.1 3

F33880: Chain of Custody
Page 3 of 3

Southeast
ACCUTEST.
Laboratories

08/25/05

Technical Report for

Field Support Service Inc

Camp Lejeune-BM 820

110385

Accutest Job Number: F33910

Sampling Date: 08/09/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **57**

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Accutest Laboratories

Sample Summary

Field Support Service Inc

Job No: F33910

Camp Lejeune-BM 820
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F33910-1	08/09/05	12:15	RK	08/10/05	AQ	Ground Water	UST820-MW07
F33910-2	08/09/05	11:30	RK	08/10/05	AQ	Ground Water	UST820-MW08
F33910-3	08/09/05	10:10	RK	08/10/05	AQ	Ground Water	UST820-MW14
F33910-4	08/09/05	10:15	RK	08/10/05	AQ	Ground Water	UST820-MW20
F33910-5	08/09/05	09:42	RK	08/10/05	AQ	Ground Water	UST820-MW21
F33910-6	08/09/05	08:10	RK	08/10/05	AQ	Ground Water	UST820-MW24
F33910-7	08/09/05	09:50	RK	08/10/05	AQ	Ground Water	UST820-MW26
F33910-8	08/09/05	11:27	RK	08/10/05	AQ	Ground Water	UST820-MW28
F33910-9	08/09/05	09:40	RK	08/10/05	AQ	Ground Water	UST820-MW29
F33910-10	08/09/05	00:00	RK	08/10/05	AQ	Trip Blank Water	UST820-TB-080905

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW07		
Lab Sample ID:	F33910-1	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053882.D	1	08/19/05	TD	n/a	n/a	GEF3749
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		71-130%
98-08-8	aaa-Trifluorotoluene	92%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW07		
Lab Sample ID:	F33910-1	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007276.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		36-114%
92-94-4	p-Terphenyl	82%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW07		
Lab Sample ID:	F33910-1	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	9.0	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW08		
Lab Sample ID:	F33910-2	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF053883.D	1	08/19/05	TD	n/a	n/a	GEF3749
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.0	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		71-130%
98-08-8	aaa-Trifluorotoluene	83%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW08		
Lab Sample ID:	F33910-2	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007277.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	90%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW08		
Lab Sample ID:	F33910-2	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW14		
Lab Sample ID:	F33910-3	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053884.D	1	08/19/05	TD	n/a	n/a	GEF3749
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		71-130%
98-08-8	aaa-Trifluorotoluene	91%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW14		
Lab Sample ID:	F33910-3	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007280.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		36-114%
92-94-4	p-Terphenyl	75%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW14		
Lab Sample ID:	F33910-3	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW20		
Lab Sample ID:	F33910-4	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF053885.D	1	08/19/05	TD	n/a	n/a	GEF3749
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.53	1.0	0.50	ug/l	J
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	90%		71-130%
98-08-8	aaa-Trifluorotoluene	90%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW20		
Lab Sample ID:	F33910-4	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007282.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.97	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.097	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.049	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.49	ug/l	
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.049	ug/l	
91-20-3	Naphthalene	ND	1.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.49	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	ND	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		36-114%
92-94-4	p-Terphenyl	92%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW20		
Lab Sample ID:	F33910-4	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	6.1	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW21		
Lab Sample ID:	F33910-5	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053896.D	1	08/20/05	TD	n/a	n/a	GEF3749
Run #2 [a]	CD062741.D	1	08/23/05	MM	n/a	n/a	GCD2581

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

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [b]	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
108-20-3	Di-Isopropyl ether	ND [b]	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.85	1.0	0.50	ug/l	J
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%	85%	71-130%
98-08-8	aaa-Trifluorotoluene	92%	95%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW21		
Lab Sample ID:	F33910-5	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007283.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.97	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.097	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.049	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.49	ug/l	
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.049	ug/l	
91-20-3	Naphthalene	ND	1.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.49	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	ND	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		36-114%
92-94-4	p-Terphenyl	90%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW21		
Lab Sample ID:	F33910-5	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	< 10	10	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

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

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW24		
Lab Sample ID:	F33910-6	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053888.D	1	08/20/05	TD	n/a	n/a	GEF3749
Run #2	CD062742.D	1	08/23/05	MM	n/a	n/a	GCD2581

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

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [a]	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
108-20-3	Di-Isopropyl ether	ND [a]	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%	85%	71-130%
98-08-8	aaa-Trifluorotoluene	86%	94%	71-124%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW24		
Lab Sample ID:	F33910-6	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007284.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		36-114%
92-94-4	p-Terphenyl	82%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW24		
Lab Sample ID:	F33910-6	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	9.5	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW26		
Lab Sample ID:	F33910-7	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053889.D	1	08/20/05	TD	n/a	n/a	GEF3749
Run #2 [a]	EF053935.D	1	08/23/05	TD	n/a	n/a	GEF3752

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

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [b]	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.5	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	97%	71-130%
98-08-8	aaa-Trifluorotoluene	93%	98%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW26		
Lab Sample ID:	F33910-7	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007285.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	76%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW26		
Lab Sample ID:	F33910-7	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	7.5	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW28		
Lab Sample ID:	F33910-8	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF053890.D	1	08/20/05	TD	n/a	n/a	GEF3749
Run #2 [a]	EF053934.D	50	08/23/05	TD	n/a	n/a	GEF3752

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

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1130 [b]	50	25	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [b]	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2430 [b]	50	25	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%	99%	71-130%
98-08-8	aaa-Trifluorotoluene	104%	101%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW28		
Lab Sample ID:	F33910-8	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007286.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		36-114%
92-94-4	p-Terphenyl	66%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW28		
Lab Sample ID:	F33910-8	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW29		
Lab Sample ID:	F33910-9	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EF053900.D	1	08/20/05	TD	n/a	n/a	GEF3749
Run #2	CD062744.D	1	08/23/05	MM	n/a	n/a	GCD2581

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

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	10.7	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND [b]	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
108-20-3	Di-Isopropyl ether	ND [b]	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	23.2	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%	80%	71-130%
98-08-8	aaa-Trifluorotoluene	99%	90%	71-124%

(a) All hits confirmed by dual column analysis.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW29		
Lab Sample ID:	F33910-9	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007287.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		36-114%
92-94-4	p-Terphenyl	92%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-MW29		
Lab Sample ID:	F33910-9	Date Sampled:	08/09/05
Matrix:	AQ - Ground Water	Date Received:	08/10/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead [a]	< 50	50	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

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

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-TB-080905		
Lab Sample ID:	F33910-10	Date Sampled:	08/09/05
Matrix:	AQ - Trip Blank Water	Date Received:	08/10/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD062745.D	1	08/23/05	MM	n/a	n/a	GCD2581
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
108-20-3	Di-Isopropyl ether	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	79%		71-130%
98-08-8	aaa-Trifluorotoluene	89%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC Number:
110385-820-080905

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

F33910

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving LAB: Accutest

Project Name	Project Location		
CAMP LEJEUNE - BM 820	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
110385	Mark Martin	FSSI	
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Analysis Desired

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOC 602	PAH 610	6010 Lead
1	UST820-MW07	8/9/05	12:15		X	UST820-MW07	6	X	X	X
2	UST820-MW08	8/9/05	11:30		X	UST820-MW08	6	X	X	X
3	UST820-MW14	8/9/05	10:10		X	UST820-MW14	6	X	X	X
4	UST820-MW20	8/9/05	10:15		X	UST820-MW20	6	X	X	X
5	UST820-MW21	8/9/05	9:42		X	UST820-MW21	6	X	X	X
6	UST820-MW24	8/9/05	8:10		X	UST820-MW24	6	X	X	X
7	UST820-MW26	8/9/05	9:50		X	UST820-MW26	6	X	X	X
8	UST820-MW28	8/9/05	11:27		X	UST820-MW28	6	X	X	X
9	UST820-MW29	8/9/05	9:40		X	UST820-MW29	6	X	X	X
10	UST820-TB-080905	8/9/05			X	Trip Blank	2	X		

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 10		UPS 1Z71V 098 15 9724 7039, 1Z71V 098 15 9793 2842	8/9/05	16:00	
2		UPS	Shaw Courier	8-10-05	9:00	14 Day TAT

2.6, 2.6

F33910: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F33910 CLIENT: Shaw E+I PROJECT: BM-820

DATE/TIME RECEIVED: 8-10-05/8:00 # OF COOLERS RECEIVED: 2 COOLER TEMPS: 2.6, 2.6

METHOD OF DELIVERY: FEDEX (UPS) ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 1Z-71V-096-15-9724-7039

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: Steven Brown 8-10-05 TECHNICIAN SIGNATURE/DATE:

ASBD06/22/05

3.1 3

F33910: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST.
Laboratories

08/25/05

Technical Report for

Field Support Service Inc

Camp Lejeune-BM 820

110385

Accutest Job Number: F33940

Sampling Date: 08/10/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **37**

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Sample Summary

Field Support Service Inc

Job No: F33940

Camp Lejeune-BM 820
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F33940-1	08/10/05	14:00	MM	08/11/05	AQ	Ground Water	UST820-M04
F33940-2	08/10/05	12:15	MM	08/11/05	AQ	Ground Water	UST820-M11
F33940-3	08/10/05	11:15	MM	08/11/05	AQ	Ground Water	UST820-M18
F33940-4	08/10/05	09:45	MM	08/11/05	AQ	Ground Water	UST820-M22
F33940-5	08/10/05	09:00	MM	08/11/05	AQ	Ground Water	UST820-M23
F33940-6	08/10/05	00:00	MM	08/11/05	AQ	Trip Blank Water	UST820-TB-081005

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M04		
Lab Sample ID:	F33940-1	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ006563.D	1	08/24/05	AL	n/a	n/a	GQQ269
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	90%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M04		
Lab Sample ID:	F33940-1	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007292.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	3.9	0.97	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.097	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.049	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.49	ug/l	
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.049	ug/l	
91-20-3	Naphthalene	ND	1.9	0.97	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.49	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.49	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	ND	1.9	0.49	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		36-114%
92-94-4	p-Terphenyl	94%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M04		
Lab Sample ID:	F33940-1	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	9.5	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M11		
Lab Sample ID:	F33940-2	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ006572.D	20	08/24/05	AL	n/a	n/a	GQQ269
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	167	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
100-41-4	Ethylbenzene	78.1	20	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-88-3	Toluene	148	20	10	ug/l	
1330-20-7	Xylenes (total)	3990	60	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		71-130%
98-08-8	aaa-Trifluorotoluene	93%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M11		
Lab Sample ID:	F33940-2	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007293.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2 [a]	PP007301.D	4	08/16/05	MRE	08/11/05	OP14095	GPP272

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2	1030 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND [b]	16	3.9	ug/l	
208-96-8	Acenaphthylene	ND [b]	16	3.9	ug/l	
120-12-7	Anthracene	ND	1.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.049	ug/l	
50-32-8	Benzo(a)pyrene	1.3	0.19	0.097	ug/l	
205-99-2	Benzo(b)fluoranthene	1.2	0.19	0.049	ug/l	
191-24-2	Benzo(g,h,i)perylene	1.3	0.19	0.097	ug/l	
207-08-9	Benzo(k)fluoranthene	0.65	0.19	0.097	ug/l	
218-01-9	Chrysene	ND	1.9	0.97	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.49	0.19	0.049	ug/l	
206-44-0	Fluoranthene	1.6	1.9	0.49	ug/l	J
86-73-7	Fluorene	ND	1.9	0.97	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	1.7	0.19	0.049	ug/l	
91-20-3	Naphthalene	179 [b]	7.8	3.9	ug/l	
90-12-0	1-Methylnaphthalene	83.2 [b]	7.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	143 [b]	7.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.97	ug/l	
129-00-0	Pyrene	1.6	1.9	0.49	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%	105%	36-114%
92-94-4	p-Terphenyl	97%	92%	31-121%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M11		
Lab Sample ID:	F33940-2	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M18		
Lab Sample ID:	F33940-3	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ006573.D	1	08/24/05	AL	n/a	n/a	GQQ269
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		71-130%
98-08-8	aaa-Trifluorotoluene	86%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M18		
Lab Sample ID:	F33940-3	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007294.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		36-114%
92-94-4	p-Terphenyl	94%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M18		
Lab Sample ID:	F33940-3	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M22		
Lab Sample ID:	F33940-4	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ006566.D	1	08/24/05	AL	n/a	n/a	GQQ269
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		71-130%
98-08-8	aaa-Trifluorotoluene	89%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M22		
Lab Sample ID:	F33940-4	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007295.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.96	ug/l	
120-12-7	Anthracene	ND	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.096	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.096	ug/l	
218-01-9	Chrysene	ND	1.9	0.96	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.96	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		36-114%
92-94-4	p-Terphenyl	95%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M22		
Lab Sample ID:	F33940-4	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	< 5.0	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M23		
Lab Sample ID:	F33940-5	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ006567.D	1	08/24/05	AL	n/a	n/a	GQQ269
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.7	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		71-130%
98-08-8	aaa-Trifluorotoluene	90%		71-124%

(a) All hits confirmed by dual column analysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M23		
Lab Sample ID:	F33940-5	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007296.D	1	08/15/05	MRE	08/11/05	OP14095	GPP271
Run #2							

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.95	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.95	ug/l	
120-12-7	Anthracene	ND	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.095	ug/l	
218-01-9	Chrysene	ND	1.9	0.95	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.048	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.48	ug/l	
86-73-7	Fluorene	ND	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.048	ug/l	
91-20-3	Naphthalene	ND	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.48	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.95	ug/l	
129-00-0	Pyrene	ND	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		36-114%
92-94-4	p-Terphenyl	96%		31-121%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-M23		
Lab Sample ID:	F33940-5	Date Sampled:	08/10/05
Matrix:	AQ - Ground Water	Date Received:	08/11/05
		Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Lead	8.2	5.0	ug/l	1	08/17/05	08/18/05	JM	SW846 6010B [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA4502
(2) Prep QC Batch: MP8452

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST820-TB-081005		
Lab Sample ID:	F33940-6	Date Sampled:	08/10/05
Matrix:	AQ - Trip Blank Water	Date Received:	08/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-BM 820		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ006568.D	1	08/24/05	AL	n/a	n/a	GQQ269
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	83%		71-130%
98-08-8	aaa-Trifluorotoluene	90%		71-124%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F33940

COC Number:
110385-820-081005

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving LAB: Accutest

Project Name	Project Location		
CAMP LEJEUNE - BM 820	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
110385	Mark Martin	FSSI	
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOC 602	PAH 610	6010 Lead
1	UST820-M04	8/10/05	14:00		X	UST820-MW04	6	X	X	X
2	UST820-M11	8/10/05	12:15		X	UST820-MW11	6	X	X	X
3	UST820-M18	8/10/05	11:15		X	UST820-MW18	6	X	X	X
4	UST820-M22	8/10/05	9:45		X	UST820-MW22	6	X	X	X
5	UST820-M23	8/10/05	9:00		X	UST820-MW23	6	X	X	X
6	UST820-TB-081005	8/10/05			X	Trip Blank	2	X		
7										
8										
9										
10										

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 – 6		UPS 1Z71V 098 15 9574 8260	8/10/05	16:00	
2		UPS		8-11-05	8:00	14 Day TAT

2.6

F33940: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F33940 CLIENT: Shaw E&I PROJECT: BM820

DATE/TIME RECEIVED: 8-11-05/ 8:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.4

METHOD OF DELIVERY: FEDEX (UPS) ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 1Z-71V-096-16-9674-8260

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: Steven Green / 8-11-05 TECHNICIAN SIGNATURE/DATE:

ASBD06/22/05

3.1
3

F33940: Chain of Custody
Page 2 of 2

APPENDIX F
HISTORICAL GROUNDWATER ANALYTICAL RESULTS

CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type II Well: **MW-2**

Client Sample ID:		UST820-MW02-02B	UST820-MW02-02C	UST820-MW02	UST820-MW02	UST820-MW02	UST820-MW02	UST820-MW02
Date Sampled:		04/26/02	10/30/02	04/18/03	10/13/03	04/14/04	11/03/04	08/06/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602								
Benzene	1	**19.4**	**95.2**	**0.84 J**	<1.0	<1.0	**0.7 J**	<1.0
Chlorobenzene	50	<10	<10	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<10	**22.5**	<5.0	<1.0	**1.7**	<1.0	**2.3**
Ethylbenzene	550	**34.9**	**212**	**21.1**	**5.4**	**0.83 J**	**14.8**	**7.0**
Xylenes (total)	530	**285**	**778**	**100**	**31.6**	**9.1**	**116**	**97.8**
Toluene	1000	**402**	**966**	**82**	**8.6**	**1.2**	**66.9**	**52.3**
Total BTEX		**741.3**	**2051.2**	**203.94**	**45.6**	**11.13**	**198.4**	**157.1**
EPA 610								
Chrysene	4.79	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9
Naphthalene	21	**52.9**	**167**	<5.4	**3.2 J**	**3.4 J**	**11.1**	**10.2**
Acenaphthene	80	<50	<56	<5.4	<5.0	<5.4	<4.8	<3.8
Acenaphthylene	210	<50	<56	<5.4	<5.0	<5.4	<4.8	<3.8
Benzo(a)anthracene	0.0479	<50	<56	<5.4	<5.0	<5.4	<4.8	<0.19
Pyrene	210	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9
Fluorene	280	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9
Anthracene	2100	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9
Fluoranthene	280	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9
Phenanthrene	210	<50	<56	<5.4	<5.0	<5.4	<4.8	<1.9
SW846-3010A								
Lead	15	NA	NA	NA	NA	NA	<5.0	<5.0
Bold type indicates detectable concentrations.								
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).								

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/2/2006
Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type II Well: **MW-3**

Client Sample ID:		UST820-MW03	UST820-MW03
Date Sampled:		11/03/04	08/08/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**
EPA 602			
Benzene	1	**42.4**	**1.9**
Chlorobenzene	50	<1.0	<1.0
Methyl tert-butyl ether	200	**4.8**	**7.1**
Ethylbenzene	550	**7.4**	**71**
Xylenes (total)	530	**52.5**	**407 J**
Toluene	1000	**19.4**	**60.7**
Total BTEX		**121.7**	**540.6**
EPA 610			
Chrysene	4.79	<4.8	<1.9
Naphthalene	21	<4.8	**19.8**
Acenaphthene	80	<4.8	<3.8
Acenaphthylene	210	<4.8	<3.8
Benzo(a)anthracene	0.0479	<4.8	<0.19
Pyrene	210	<4.8	<1.9
Fluorene	280	<4.8	<1.9
Anthracene	2100	<4.8	<1.9
Fluoranthene	280	<4.8	<1.9
Phenanthrene	210	<4.8	<1.9
SW846-3010A			
Lead	15	<5.0	<5.0
Bold type indicates detectable concentrations.			
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).			

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/2/2006
Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type II Well: **MW-4**

Client Sample ID:		143GW025	143GW047	143GW075	143GW106		143GW133	143GW144	143GW155	143GW176	143GW191	143GW202
Date Sampled:		08/19/97	02/11/98	05/12/98	08/15/98	11/17/98	02/26/99	05/18/99	09/10/99	11/17/99	05/18/00	08/29/00
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	**0.12 JP**	<0.8	<1	<1	<1	<1	<10	<1	<5	<1	<2
1,3-Dichlorobenzene	170	<0.8	**0.079 JP**	<0.8	<0.8	<1	<1	<10	<1	<5	<1	<2
1,4-Dichlorobenzene	1.4	**0.27 JP**	<1.5	<1.5	<1.5	**0.81 J**	<1	<10	<1	<5	<1	<2
Dibromochloromethane	0.41	NA	NA	NA	NA	NA	<1	<10	<1	<5	<1	<2
Chloroform	70	NA	NA	NA	NA	NA	<1	<10	<1	<5	<1	<2
Chloromethane	2.6	NA	NA	NA	NA	NA	<1	<10	<1	<5	<1	<2
1,2-Dichloroethane	70	NA	NA	NA	NA	NA	<1	<10	<1	<5	<1	<2
EPA 602												
Benzene	1	**2.8 P**	**0.5 P**	<0.5	**1.1**	**1.6**	<1	<10	**3.8**	**161**	<1	<1
Chlorobenzene	50	<0.5	<0.5	**0.37 J**	<0.5	<1	<1	<10	<1	<5	<1	<2
Methyl tert-butyl ether	200	**11 P**	**30**	<5	**6.9**	**14**	**316**	**652**	**73.3**	**118**	<1	**0.79 J**
Ethylbenzene	550	**0.68 J**	**0.27 JP**	**0.12 J**	**0.17 J**	**0.22 J**	<1	<10	**7.1**	**17.6**	<1	<2
Xylenes (total)	530	**1.55 JP**	**1.34 JBP**	**0.32 J**	**1.21 J**	**2.96 J**	<3	<30	<3	**87**	<3	<6
Toluene	1000	**2.1 P**	**0.88 JBP**	**0.85 J**	**1.8 J**	**0.69 J**	<1	<10	<1	**75.4**	<1	<2
Total BTEX		**7.13**	**2.99**	**1.29**	**4.28**	**5.47**			**10.9**	**341**		
EPA 610												
Chrysene	4.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.0479	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/2/2006
Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type II Well: **MW-4**

Client Sample ID:		143GW213	CL-143-GW-224	GW-224	UST820-MW04-01C3	UST820-MW04-02B	UST820-MW04-02C	UST820-MW04	UST820-MW04	UST820-MW04	UST820-MW04	UST820-MW04
Date Sampled:		12/13/00	03/19/01	06/21/01	10/02/01	04/26/02	10/28/02	04/14/03	10/07/03	04/15/04	11/06/04	08/10/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	<1	<4	NA	NA	NA	NA	NA	NA	NA	NA	<1.0
1,3-Dichlorobenzene	170	<1	<4	NA	NA	NA	NA	NA	NA	NA	NA	<1.0
1,4-Dichlorobenzene	1.4	<1	<4	NA	NA	NA	NA	NA	NA	NA	NA	<1.0
Dibromochloromethane	0.41	<1	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	70	<1	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	2.6	<1	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	70	<1	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 602												
Benzene	1	<1	**13**	<6.0	**9.6**	<1.0	**5.2**	<1.0	<1.0	<1.0	**1.6**	<1.0
Chlorobenzene	50	<1	<4	<6.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<5	**380**	**600**	**36**	**0.75 J**	**0.68 J**	<1.0	**1.5**	<1.0	<1.0	<1.0
Ethylbenzene	550	<1	**3.7 J**	<6.0	**16**	<1.0	**3.1**	<1.0	<1.0	<1.0	**0.63 J**	<1.0
Xylenes (total)	530	<1	**9.6**	<6.0	**100**	**5.4**	**9.3**	<3.0	<3.0	<3.0	**1.3 J**	<3.0
Toluene	1000	<1	**10**	**1.7 J**	**72**	<1.0	**5.4**	<1.0	<1.0	<1.0	**0.74 J**	<1.0
Total BTEX			**36.3**	**1.7**	**197.6**	**5.4**	**23**				**4.27**	
EPA 610												
Chrysene	4.79	NA	NA	<0.10	<0.10	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9
Naphthalene	21	NA	NA	<2.0	<2.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9
Acenaphthene	80	NA	NA	<1.0	<1.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<3.9
Acenaphthylene	210	NA	NA	<1.0	<1.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<3.9
Benzo(a)anthracene	0.0479	NA	NA	<0.10	<0.10	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<0.19
Pyrene	210	NA	NA	<0.10	<0.25	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9
Fluorene	280	NA	NA	<2.0	<2.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9
Anthracene	2100	NA	NA	<1.0	<1.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9
Fluoranthene	280	NA	NA	<0.20	<0.25	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9
Phenanthrene	210	NA	NA	<1.0	<1.0	<5.0	<5.2	<5.2	<5.0	<5.2	<4.8	<1.9
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.0	**9.5**
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards.										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/2/2006
Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type II Well: **MW-5**

Client Sample ID:		143GW024	143GW046	143GW077	143GW107		143GW134	143GW145	143GW164	143GW177	143GW200	143GW210
Date Sampled:		08/20/97	02/11/98	05/12/98	08/15/98	11/17/98	02/26/99	05/18/99	09/10/99	11/17/99	05/18/00	08/29/00
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	**0.52 J**	<5	<2	<1	<1	<1	<1	<1	<5	<1	<2
1,3-Dichlorobenzene	170	<0.8	<3.8	<1.5	<0.8	<1	<1	<1	<1	<5	<1	<2
1,4-Dichlorobenzene	1.4	<1.5	<7.5	<3	**0.18 JB**	<1	<1	<1	<1	<5	<1	<2
Dibromochloromethane	0.41	NA	NA	NA	NA	NA	<1	<1	<1	<5	<1	<2
Chloroform	70	NA	NA	NA	NA	NA	<1	<1	<1	<5	<1	<2
Chloromethane	2.6	NA	NA	NA	NA	NA	<1	<1	<1	<5	<1	<2
1,2-Dichloroethane	70	NA	NA	NA	NA	NA	<1	<1	<1	<5	<1	<2
EPA 602												
Benzene	1	<0.5	**21 P**	**2.2 P**	**1.9**	<1	<1	<1	<1	**47.2**	**6.1**	**216**
Chlorobenzene	50	<0.5	<2.5	<1	<0.5	<1	<1	<1	<1	<5	<1	<2
Methyl tert-butyl ether	200	**0.17 J**	**280**	**88 P**	**17**	**1.8 J**	**266**	**68.9**	**21**	**100**	**6.4**	**20**
Ethylbenzene	550	**0.066 J**	**1.8 J**	<1.5	**0.14 J**	<1	<1	<1	<1	**41.1**	**4.9**	**11.1**
Xylenes (total)	530	**0.064 J**	**8.7 JBP**	**0.64 J**	**0.82 J**	<3	<3	<3	<3	**269**	**23.9**	**6.8**
Toluene	1000	**0.054 J**	**8.1 JBP**	**0.29 JBP**	**0.21 J**	**0.3 J**	<1	<1	<1	**270**	**36.2**	**46.4**
Total BTEX		**0.184**	**39.6**	**3.13**	**3.07**	**0.3**				**627**	**71.1**	**280.3**
EPA 610												
Chrysene	4.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.0479	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type II Well: **MW-5**

Client Sample ID:		143GW221	CL-143-GW-232	GW-232	Well Dry	Well Dry	Well Dry	UST820-MW05	UST820-MW05	UST820-MW05	UST820-MW05	UST820-MW05
Date Sampled:		12/13/00	03/19/01	06/26/01	10/02/01	04/26/02	10/28/02	04/08/03	10/09/03	04/13/04	11/20/04	08/06/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	<1	<1	NA				NA	NA	NA	NA	<1.0
1,3-Dichlorobenzene	170	<1	<1	NA				NA	NA	NA	NA	<1.0
1,4-Dichlorobenzene	1.4	<1	<1	NA				NA	NA	NA	NA	<1.0
Dibromochloromethane	0.41	<1	<1	NA				NA	NA	NA	NA	NA
Chloroform	70	<1	<1	NA				NA	NA	NA	NA	NA
Chloromethane	2.6	<1	<1	NA				NA	NA	NA	NA	NA
1,2-Dichloroethane	70	<1	<1	NA				NA	NA	NA	NA	NA
EPA 602												
Benzene	1	**30**	**18**	**3.4**				<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<1	<1	<1.0				<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<5	**3.2 J**	**0.72 J**				<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	550	**5.6**	**2.8**	**1.3**				<1.0	<1.0	**0.62 J**	<1.0	<1.0
Xylenes (total)	530	**14**	**4**	**7.5**				<3.0	<3.0	**3.4**	<3.0	<3.0
Toluene	1000	**19**	**11**	**7.7**				<1.0	<1.0	**1.5**	<1.0	<1.0
Total BTEX		**68.6**	**35.8**	**19.9**						**5.52**		
EPA 610												
Chrysene	4.79	NA	NA	<0.10				<5.2	<5.3	<5.4	<4.8	<1.9
Naphthalene	21	NA	NA	<2.0				<5.2	<5.3	<5.4	<4.8	<1.9
Acenaphthene	80	NA	NA	<1.0				<5.2	<5.3	<5.4	<4.8	<3.9
Acenaphthylene	210	NA	NA	<1.0				<5.2	<5.3	<5.4	<4.8	<3.9
Benzo(a)anthracene	0.0479	NA	NA	<0.10				<5.2	<5.3	<5.4	<4.8	**0.078 J**
Pyrene	210	NA	NA	<0.10				<5.2	<5.3	<5.4	<4.8	<1.9
Fluorene	280	NA	NA	<2.0				<5.2	<5.3	<5.4	<4.8	<1.9
Anthracene	2100	NA	NA	<1.0				<5.2	<5.3	<5.4	<4.8	<1.9
Fluoranthene	280	NA	NA	<0.20				<5.2	<5.3	<5.4	<4.8	<1.9
Phenanthrene	210	NA	NA	<1.0				<5.2	<5.3	<5.4	<4.8	<1.9
SW846-3010A												
Lead	15	NA	NA	NA				NA	NA	NA	<5.0	<5.0
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type II Well: **MW-6**

Client Sample ID:		UST820-MW06	UST820-MW06
Date Sampled:		11/06/04	08/08/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**
EPA 602			
Benzene	1	**212**	**150**
Chlorobenzene	50	<20	**2.9**
Methyl tert-butyl ether	210	**12.1 J**	**31.7**
Ethylbenzene	550	**1400**	**1980**
Xylenes (total)	530	**906**	**1480**
Toluene	1000	**217**	**411**
Total BTEX		**2735**	**4021**
EPA 610			
Chrysene	4.79	<4.8	<1.9
Naphthalene	21	**268**	**281**
Acenaphthene	80	<4.8	<3.8
Acenaphthylene	210	<4.8	<15
Benzo(a)anthracene	0.0479	<4.8	<0.19
Pyrene	210	<4.8	<1.9
Fluorene	280	<4.8	<1.9
Anthracene	2100	<4.8	<1.9
Fluoranthene	280	<4.8	<1.9
Phenanthrene	210	<4.8	<1.9
SW846-3010A			
Lead	15	<5.0	<5.0
Bold type indicates detectable concentrations.			
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).			

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Samples analyzed by Compuchem, STL, or Accutest

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Project #110385

Analytical Data Summary

Type III Well: **MW-7**

Client Sample ID:		143GW027	143GW053	143GW084	143GW108		143GW142	143GW153	143GW163	143GW181	143GW199	143GW209
Date Sampled:		08/19/97	02/11/98	05/12/98	08/15/98	11/17/98	02/26/99	05/18/99	09/10/99	11/17/99	05/18/00	08/29/00
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2
1,3-Dichlorobenzene	170	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<1	<1	<2
1,4-Dichlorobenzene	1.4	<1.5	**0.12 J**	**0.34 J**	**1.2 JB**	**0.82 J**	<1	<1	<1	<1	<1	<2
Dibromochloromethane	0.41	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
Chloroform	70	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
Chloromethane	2.6	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
1,2-Dichloroethane	70	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
EPA 602												
Benzene	1	<0.5	**0.1 J**	<0.5	**0.11 J**	<1	**7.5**	**36.6**	**47.9**	**7.1**	**4.7**	**46**
Chlorobenzene	50	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2
Methyl tert-butyl ether	200	**0.82 J**	**0.67 J**	**0.21 J**	**1.8 J**	**1.2 J**	**8.3**	**19**	**4.2**	**8.6**	**91.4**	**86.9**
Ethylbenzene	550	<0.8	**0.15 JB**	<0.8	<0.8	<1	**3.3**	**12.6**	**11.3**	**12.8**	<1	**7.8**
Xylenes (total)	530	<3	**0.95 JB**	**0.26 J**	<3	<3	**7.4**	**51.3**	**43.5**	**77.4**	<3	**14.7**
Toluene	1000	<2	**1.2 JB**	**0.79 JB**	<2	**0.26 J**	**24.9**	**59.6**	**39.5**	**42.8**	<1	**25.8**
Total BTEX			**2.4**	**1.05**	**0.11**	**0.26**	**43.1**	**160.1**	**142.2**	**140.1**	**4.7**	**94.3**
EPA 610												
Chrysene	4.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.0479	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Project #110385

Analytical Data Summary

Type III Well: **MW-7**

Client Sample ID:		143GW220	CL-143-GW-231	GW-231	UST820-MW07-01C3	UST820-MW07-02B	UST820-MW07-02C	UST820-MW07	UST820-MW07	UST820-MW07	UST820-MW07
Date Sampled:		12/13/00	03/19/01	06/26/01	09/27/01	04/26/02	10/30/02	04/18/03	10/23/03	04/20/04	11/20/04
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601											
1,2-Dichlorobenzene	24	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	170	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	1.4	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	0.41	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	70	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	2.6	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	70	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
EPA 602											
Benzene	1	**21**	**18**	<1.0	<2.0	<1.0	<1.0	<1.0	**5.3**	<1.0	**0.56 J**
Chlorobenzene	50	<1	<1	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**28**	**39**	**1.7 J**	<2.0	**48.3**	**14.1**	**2.9**	**1.6**	<1.0	<1.0
Ethylbenzene	550	**4.9**	**3.8**	<1.0	<2.0	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0
Xylenes (total)	530	**13**	**9.6**	<1.0	<4.0	**1.8 J**	<3.0	<3.0	**9.4**	<3.0	<3.0
Toluene	1000	**15**	**14**	**0.35 J**	<2.0	**1.8**	<1.0	<1.0	**3.6**	<1.0	<1.0
Total BTEX		**53.9**	**45.4**	**0.35**		**3.6**			**19.6**		**0.56**
EPA 610											
Chrysene	4.79	NA	NA	<0.10	<0.10	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Naphthalene	21	NA	NA	<2.0	<2.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Acenaphthene	80	NA	NA	<1.0	<1.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Acenaphthylene	210	NA	NA	<1.0	<1.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Benzo(a)anthracene	0.0479	NA	NA	<0.10	<0.10	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Pyrene	210	NA	NA	<0.10	<0.25	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Fluorene	280	NA	NA	<2.0	<2.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Anthracene	2100	NA	NA	<1.0	<1.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Fluoranthene	280	NA	NA	<0.20	<0.25	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
Phenanthrene	210	NA	NA	<1.0	<1.0	<5.5	<5.3	<5.0	<5.1	<5.3	<4.8
SW846-3010A											
Lead	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7.7**
			Bold type indicates detectable concentrations.								
			Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).								

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type III Well: **MW-7**

Client Sample ID:		UST820-MW07	UST820-MW07	UST820-MW07
Date Sampled:		3/1/05	5/31/05	8/9/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**
EPA 601				
1,2-Dichlorobenzene	24	NA	NA	<1.0
1,3-Dichlorobenzene	170	NA	NA	<1.0
1,4-Dichlorobenzene	1.4	NA	NA	<1.0
Dibromochloromethane	0.41	NA	NA	NA
Chloroform	70	NA	NA	NA
Chloromethane	2.6	NA	NA	NA
1,2-Dichloroethane	70	NA	NA	NA
EPA 602				
Benzene	1	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<1.0	<1.0	<1.0
Ethylbenzene	550	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0
Toluene	1000	<1.0	<1.0	<1.0
Total BTEX				
EPA 610				
Chrysene	4.79	<4.8	<4.8	<1.9
Naphthalene	21	<4.8	<4.8	<1.9
Acenaphthene	80	<4.8	<4.8	<3.8
Acenaphthylene	210	<4.8	<4.8	<3.8
Benzo(a)anthracene	0.0479	<4.8	<4.8	<0.19
Pyrene	210	<4.8	<4.8	<1.9
Fluorene	280	<4.8	<4.8	<1.9
Anthracene	2100	<4.8	<4.8	<1.9
Fluoranthene	280	<4.8	<4.8	<1.9
Phenanthrene	210	<4.8	<4.8	<1.9
SW846-3010A				
Lead	15	**5.9**	**6.3**	**9.0**

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/2/2006
Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type II Well: **MW-8**

Client Sample ID:		GW-238	UST820-MW08-01C3	UST820-MW08-02B	UST820-MW08-02C	UST820-MW08	UST820-MW08	UST820-MW08	UST820-MW08	UST820-MW08	UST820-MW08	UST820-MW08
Date Sampled:		06/26/01	09/27/01	04/26/02	10/30/02	04/18/03	10/23/03	04/20/04	11/20/04	03/01/05	05/31/05	08/09/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602												
Benzene	1	**3.2 J**	**5.4**	<1.0	<1.0	<1.0	**12.9**	**1.4**	**1.3**	<1.0	<1.0	<1.0
Chlorobenzene	50	<5.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	**180**	**140**	**172**	**95.8**	**2.7**	**33.2**	**50.2**	**15.1**	**5.4**	**3.0**	**2.0**
Ethylbenzene	550	<5.0	<5.0	<1.0	<1.0	<1.0	**2.1**	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<5.0	<5.0	<3.0	<3.0	<3.0	**12.2**	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	**1.6 J**	<5.0	**1.3**	<1.0	<1.0	**6.7**	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX		**4.8**	**5.4**	**1.3**			**33.9**	**1.4**	**1.3**			
EPA 610												
Chrysene	4.79	<0.10	<0.10	<5.5	<5.2	<5.1	<5.1	<5.3	<4.8	<4.8	<4.9	<1.9
Naphthalene	21	<2.0	<2.0	<5.5	<5.2	<5.1	<5.1	<5.3	<4.8	<4.8	<4.9	<1.9
Acenaphthene	80	<1.0	<1.0	<5.5	<5.2	<5.1	<5.1	<5.3	<4.8	<4.8	<4.9	<3.8
Acenaphthylene	210	<1.0	<1.0	<5.5	<5.2	<5.1	<5.1	<5.3	<4.8	<4.8	<4.9	<3.8
Benzo(a)anthracene	0.0479	<0.10	<0.10	<5.5	<5.2	<5.1	<5.1	<5.3	<4.8	<4.8	<4.9	<0.19
Pyrene	210	<0.10	<0.25	<5.5	<5.2	<5.1	<5.1	<5.3	<4.8	<4.8	<4.9	<1.9
Fluorene	280	<2.0	<2.0	<5.5	<5.2	<5.1	<5.1	<5.3	<4.8	<4.8	<4.9	<1.9
Anthracene	2100	<1.0	<1.0	<5.5	<5.2	<5.1	<5.1	<5.3	<4.8	<4.8	<4.9	<1.9
Fluoranthene	280	<0.20	<0.25	<5.5	<5.2	<5.1	<5.1	<5.3	<4.8	<4.8	<4.9	<1.9
Phenanthrene	210	<1.0	<1.0	<5.5	<5.2	<5.1	<5.1	<5.3	<4.8	<4.8	<4.9	<1.9
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	NA	**27**	<5.0	**8.5**	<5.0
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type III Well: **MW-9**

Client Sample ID:		143GW021	143GW048	143GW078			143GW135	143GW146	143GW161	143GW175	143GW197	143GW207
Date Sampled:		08/19/97	02/11/98	05/12/98	08/15/98	11/17/98	02/26/99	05/18/99	09/10/99	11/17/99	05/18/00	08/29/00
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	<2000	<1	<500	<10	<380	<10	<200	<10	<50	<5	<2
1,3-Dichlorobenzene	170	<1500	<0.8	<380	<7.5	<290	<10	<200	<10	<50	<5	<2
1,4-Dichlorobenzene	1.4	740 J	<1.5	<750	2.6 JB	<580	<10	<200	<10	<50	<5	<2
Dibromochloromethane	0.41	NA	NA	NA	NA	NA	<10	<200	<10	<50	<5	<2
Chloroform	70	NA	NA	NA	NA	NA	<10	<200	<10	<50	<5	<2
Chloromethane	2.6	NA	NA	NA	NA	NA	<10	<200	<10	<50	<5	<2
1,2-Dichloroethane	70	NA	NA	NA	NA	NA	<10	<200	<10	<50	<5	<2
EPA 602												
Benzene	1	8500	0.45 J	4400 P	3300	5000	4140	5620	6170	1190	2580	3390
Chlorobenzene	50	<1000	<0.5	<250	<5	<190	<10	<200	<10	<50	<5	<2
Methyl tert-butyl ether	200	<10000	31	<2500	1300 J	14000	11600	14000	16700	55.2	7150	9260
Ethylbenzene	550	2800	0.19 JP	740	600 J	480	368	411	1030	736	217	291
Xylenes (total)	530	13300	1.21 JBP	2010 B	1780 J	1120 J	785	917	2760	5990	507	735
Toluene	1000	32000	0.82 JBP	4700 B	2500 B	1200	959	1340	1760	5480	747	1060
Total BTEX		56600	2.67	11850	8180	7800	6252	8288	11720	13396	4051	5476
EPA 610												
Chrysene	4.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.0479	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type III Well: **MW-9**

Client Sample ID:		143GW218	CL-143-GW-229	GW-239	UST820-MW09-01C3	UST820-MW09-02B	UST820-MW09-02C	UST820-MW09	UST820-MW09	UST820-MW09	UST820-MW09	UST820-MW09
Date Sampled:		12/13/00	03/19/01	06/21/01	10/01/01	04/24/02	10/28/02	04/16/03	10/21/03	04/14/04	11/3/04	8/6/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	<1	<50	NA	NA	NA	NA	NA	NA	NA	NA	**4.8**
1,3-Dichlorobenzene	170	<1	<50	NA	NA	NA	NA	NA	NA	NA	NA	<1.0
1,4-Dichlorobenzene	1.4	<1	<50	NA	NA	NA	NA	NA	NA	NA	NA	<1.0
Dibromochloromethane	0.41	<1	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	70	<1	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	2.6	<1	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	70	<1	<50	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 602												
Benzene	1	**2900**	**2000**	**2700**	**2600**	**1770**	**1450**	**2340**	**1960**	**1170**	**2360**	**1820**
Chlorobenzene	50	<50	<50	<80	<200	<50	<50	<1.0	<50	<20	<5.0	<1.0
Methyl tert-butyl ether	200	**7700**	**5100**	**6400**	**7000**	**4070**	**4200**	**4530**	**4110**	**2620**	**3930**	**2410**
Ethylbenzene	550	**280**	**180**	**300**	**250**	**159**	**125**	**241**	**155**	**225**	**222**	**168**
Xylenes (total)	530	**740**	**490**	**820**	**690**	**447**	**348**	**556**	**389**	**532**	**495**	**297**
Toluene	1000	**990**	**710**	**1200 B**	**1100**	**645**	**488**	**466**	**416**	**375**	**428**	**224**
Total BTEX		**4910**	**3380**	**5020**	**4640**	**3021**	**2411**	**3603**	**2920**	**2302**	**3505**	**2509**
EPA 610												
Chrysene	4.79	NA	NA	<0.10	<0.10	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8	<2.0
Naphthalene	21	NA	NA	**25**	**24**	**9.6**	**15.6**	**24.4**	**15.9**	**14.8**	**16.8**	**13.9**
Acenaphthene	80	NA	NA	<1.0	<1.0	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8	<3.9
Acenaphthylene	210	NA	NA	<1.0	<1.0	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8	<3.9
Benzo(a)anthracene	0.0479	NA	NA	<0.10	<0.10	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8	<0.2
Pyrene	210	NA	NA	<0.10	<0.25	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8	<2.0
Fluorene	280	NA	NA	<2.0	<2.0	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8	<2.0
Anthracene	2100	NA	NA	<1.0	<1.0	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8	<2.0
Fluoranthene	280	NA	NA	<0.20	<0.25	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8	<2.0
Phenanthrene	210	NA	NA	<1.0	<1.0	<5.0	<5.2	<5.1	<5.1	<5.4	<4.8	<2.0
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.0	<20
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type III Well: **MW-9D**

Client Sample ID:		UST820-MW19D-01C3	UST820-MW09D-02B	UST820-MW09D-02C	UST820-MW09D	UST820-MW09D	UST820-MW09D	UST820-MW09D	UST820-MW09D
Date Sampled:		10/03/01	04/24/02	10/28/02	04/14/03	10/13/03	04/14/04	11/3/04	8/6/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 602									
Benzene	1	<1.0	**2**	**19.9**	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-butyl ether	200	<10	**1.2**	**2.5**	<10	<10	<10	<1.0	<1.0
Ethylbenzene	550	<1.0	**0.73 J**	**7.8**	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<2.0	**1.8 J**	**22**	<3.0	<3.0	<3.0	<3.0	<3.0
Toluene	1000	<1.0	**1.7**	**17.3**	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX			**6.23**	**67**					
EPA 610									
Chrysene	4.79	<0.10	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9
Naphthalene	21	<2.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9
Acenaphthene	80	<1.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<3.8
Acenaphthylene	210	<1.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<3.8
Benzo(a)anthracene	0.0479	<0.10	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<0.19
Pyrene	210	<0.25	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9
Fluorene	280	<2.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9
Anthracene	2100	<1.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9
Fluoranthene	280	<0.25	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9
Phenanthrene	210	<1.0	<5.5	<5.2	<5.2	<5.1	<5.4	<4.8	<1.9
SW846-3010A									
Lead	15	NA	NA	NA	NA	NA	NA	<5.0	<5.0
Bold type indicates detectable concentrations.									
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).									

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Project #110385

Analytical Data Summary

Type II Well: **MW-10**

Client Sample ID:		143GW023	143GW051	143GW081	143GW111		143GW137	143GW147	143GW158	143GW172	143GW195	143GW205
Date Sampled:		08/19/97	02/11/98	05/12/98	08/15/98	11/17/98	02/27/99	05/18/99	09/10/99	11/17/99	05/18/00	08/29/00
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	**0.33 J**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2
1,3-Dichlorobenzene	170	**0.098 J**	<0.8	<0.8	<0.8	<1	<1	<1	<1	<1	<1	<2
1,4-Dichlorobenzene	1.4	<1.5	<1.5	<1.5	**0.23 J**	<1	<1	<1	<1	<1	<1	<2
Dibromochloromethane	0.41	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
Chloroform	70	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
Chloromethane	2.6	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
1,2-Dichloroethane	70	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
EPA 602												
Benzene	1	**0.067 J**	**6.2**	<0.5	**0.99**	<1	**8.3**	**60.4**	**7.7**	**2.6**	<1	<1
Chlorobenzene	50	**0.047 J**	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2
Methyl tert-butyl ether	200	**0.21 J**	**9.6**	**18 P**	**20**	<5	**12.6**	**11.6**	**3.8**	**8.4**	**10.7**	**5.5**
Ethylbenzene	550	**0.093 J**	**0.26 JBP**	**0.15 JP**	**0.16 J**	<1	**2.3**	**11.5**	**10.9**	**7.1**	<1	<2
Xylenes (total)	530	**0.333 J**	**1.24 JB**	**0.53 JP**	**0.44 J**	<3	**3.2**	**24.7**	**110**	**32.2**	<3	<6
Toluene	1000	**0.11 J**	**1.1 JB**	**1.1 JBP**	**0.25 JB**	**0.29 J**	**4.7**	**30.7**	**100**	**14.2**	<1	<2
Total BTEX		**0.603**	**8.8**	**1.78**	**1.84**	**0.29**	**18.5**	**127.3**	**228.6**	**56.1**		
EPA 610												
Chrysene	4.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.0479	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Project #110385

Analytical Data Summary

Type II Well: **MW-10**

Client Sample ID:		143GW216	CL-143-GW-227	GW-227	UST820-MW10-01C3	UST820-MW10-02B	UST820-MW10-02C	UST820-MW10	No Sample	No Sample	No Sample	No Sample
Date Sampled:		12/13/00	03/19/01	06/22/01	09/26/01	04/24/02	10/30/02	04/14/03	10/09/03	04/13/04	11/15/2004	8/8/2005
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	<1	<1	NA	NA	NA	NA	NA				
1,3-Dichlorobenzene	170	<1	<1	NA	NA	NA	NA	NA				
1,4-Dichlorobenzene	1.4	<1	<1	NA	NA	NA	NA	NA				
Dibromochloromethane	0.41	<1	<1	NA	NA	NA	NA	NA				
Chloroform	70	<1	<1	NA	NA	NA	NA	NA				
Chloromethane	2.6	<1	<1	NA	NA	NA	NA	NA				
1,2-Dichloroethane	70	<1	<1	NA	NA	NA	NA	NA				
EPA 602												
Benzene	1	<1	**0.21 J**	<1.0	<1.0	<1.0	<1.0	<1.0				
Chlorobenzene	50	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0				
Methyl tert-butyl ether	200	**7.4**	**7.8**	**11**	<10	**7**	**9**	**6.9**				
Ethylbenzene	550	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0				
Xylenes (total)	530	<1	<1	<1.0	<2.0	<2.0	<2.0	<3.0				
Toluene	1000	<1	**0.23 J**	**0.41 J**	<1.0	<1.0	<1.0	<1.0				
Total BTEX			**0.44**	**0.41**								
EPA 610												
Chrysene	4.79	NA	NA	<0.10	<0.10	<5.5	<5.1	<5.0				
Naphthalene	21	NA	NA	<2.0	<2.0	<5.5	<5.1	<5.0				
Acenaphthene	80	NA	NA	<1.0	<1.0	<5.5	<5.1	<5.0				
Acenaphthylene	210	NA	NA	<1.0	<1.0	<5.5	<5.1	<5.0				
Benzo(a)anthracene	0.0479	NA	NA	<0.10	<0.10	<5.5	<5.1	<5.0				
Pyrene	210	NA	NA	<0.10	<0.25	<5.5	<5.1	<5.0				
Fluorene	280	NA	NA	<2.0	<2.0	<5.5	<5.1	<5.0				
Anthracene	2100	NA	NA	<1.0	<1.0	<5.5	<5.1	<5.0				
Fluoranthene	280	NA	NA	<0.20	<0.25	<5.5	<5.1	<5.0				
Phenanthrene	210	NA	NA	<1.0	<1.0	<5.5	<5.1	<5.0				
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

Type II Well: **MW-11**

Client Sample ID:		143GW019	143GW045	143GW076			143GW140	143GW151	143GW156	143GW178	143GW192	143GW211
Date Sampled:		08/19/97	02/11/98	05/12/98	08/15/98	11/17/98	02/27/99	05/18/99	09/10/99	11/17/99	05/18/00	08/29/00
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	<2000	<100	<500	<10	<200	<1	<100	<50	<20	<20	<20
1,3-Dichlorobenzene	170	<1500	<75	<380	<7.5	<150	<1	<100	<50	<20	<20	<20
1,4-Dichlorobenzene	1.4	<3000	<150	<750	3.2 JB	<300	<1	<100	<50	<20	<20	<20
Dibromochloromethane	0.41	NA	NA	NA	NA	NA	<1	<100	<50	<20	<20	<20
Chloroform	70	NA	NA	NA	NA	NA	<1	<100	<50	<20	<20	<20
Chloromethane	2.6	NA	NA	NA	NA	NA	<1	<100	<50	<20	<20	<20
1,2-Dichloroethane	70	NA	NA	NA	NA	NA	<1	<100	<50	<20	<20	<20
EPA 602												
Benzene	1	**6900**	**340 P**	**590 P**	**760**	**880**	<1	**1040**	**445**	**3630**	**1360**	**647**
Chlorobenzene	50	<1000	<50	<250	<5	<100	<1	<100	<50	<20	<20	<20
Methyl tert-butyl ether	200	<10000	**47 JP**	<2500	**20 J**	<1000	**116**	<100	<50	**10200**	**390**	**117**
Ethylbenzene	550	**3300**	**100 P**	**630 B**	**550 J**	**640**	**173**	**578**	**382**	**613**	**1110**	**881**
Xylenes (total)	530	**18600**	**650 PB**	**4400 B**	**3700 J**	**3900**	**1250**	**3700**	**3720**	**1510**	**7760**	**6140**
Toluene	1000	**29000**	**420 PB**	**4400 B**	**3700 B**	**2800**	**1770**	**5330**	**3650**	**1040**	**8220**	**6690**
Total BTEX		**57800**	**1510**	**10020**	**8710**	**8220**	**3193**	**10648**	**8197**	**6793**	**18450**	**14358**
EPA 610												
Chrysene	4.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.0479	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

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Analytical Data Summary

Type II Well: **MW-11**

Client Sample ID:		143GW222	CL-143-GW-233	GW-233	UST820-MW11-01C3	UST820-MW11-02B	UST820-MW11-02C	UST820-MW11	UST820-MW11	UST820-MW11	UST820-MW11	UST820-MW11
Date Sampled:		12/13/00	03/19/01	06/26/01	10/02/01	04/26/02	10/30/02	04/18/03	10/21/03	04/16/04	11/22/04	08/10/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	<1	<100	NA	NA	NA	NA	NA	NA	NA	NA	**167**
1,3-Dichlorobenzene	170	<1	<100	NA	NA	NA	NA	NA	NA	NA	NA	<20
1,4-Dichlorobenzene	1.4	<1	<100	NA	NA	NA	NA	NA	NA	NA	NA	<20
Dibromochloromethane	0.41	<1	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	70	<1	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	2.6	<1	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	70	<1	<100	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 602												
Benzene	1	**1000**	**700**	**410**	**130**	**45.1**	**49.3**	**7.5 J**	**84.7**	<20	**7.4**	<20
Chlorobenzene	50	<100	<100	**170 J**	<50	<10	**1.1**	<10	<10	<20	<1.0	<20
Methyl tert-butyl ether	200	<500	**190 J**	<1000	<500	<10	**20.2**	**89.7**	**20.7**	<20	<1.0	<20
Ethylbenzene	550	**1000**	**1000**	**1400**	**340**	**481**	**91.5**	**35.6**	**42.2**	**31.6**	**111**	**78**
Xylenes (total)	530	**7800**	**7000**	**9000**	**2600**	**3270**	**1580**	**1290**	**1610**	**2180**	**2450**	**3990**
Toluene	1000	**9100**	**8200**	**11000**	**2900**	**2900**	**594**	**284**	**310**	**264**	**722**	**1478**
Total BTEX		**18900**	**16900**	**21810**	**5970**	**6696.1**	**2314.8**	**1617.1**	**2046.9**	**2475.6**	**3290.4**	**5546.1**
EPA 610												
Chrysene	4.79	NA	NA	<0.50	<0.10	<20	<53	<40	<20	<5.6	<4.8	<1.9
Naphthalene	21	NA	NA	**250**	**7.5**	**163**	**271**	**140**	**81.1**	**92.3**	**139**	**179**
Acenaphthene	80	NA	NA	<5.0	**1.2 P**	<20	<53	<40	<20	<5.6	<4.8	<16
Acenaphthylene	210	NA	NA	<5.0	**11**	<20	<53	<40	<20	<5.6	<4.8	<16
Benzo(a)anthracene	0.0479	NA	NA	<0.50	<0.10	<20	<53	<40	<20	<5.6	<4.8	<0.19
Pyrene	210	NA	NA	<0.50	<0.25	<20	<53	<40	<20	<5.6	<4.8	**1.6 J**
Fluorene	280	NA	NA	<10	<2.0	<20	<53	<40	<20	<5.6	<4.8	<1.9
Anthracene	2100	NA	NA	<5.0	<1.0	<20	<53	<40	<20	<5.6	<4.8	<1.9
Fluoranthene	280	NA	NA	<1.0	<0.25	<20	<53	<40	<20	<5.6	<4.8	**1.6 J**
Phenanthrene	210	NA	NA	<5.0	<1.0	<20	<53	<40	<20	<5.6	<4.8	<1.9
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.0	<5.0
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/2/2006
Samples analyzed by Compuchem, STL, or Accutest

CLJ - POL Berkeley Manor
Project #110385

Analytical Data Summary

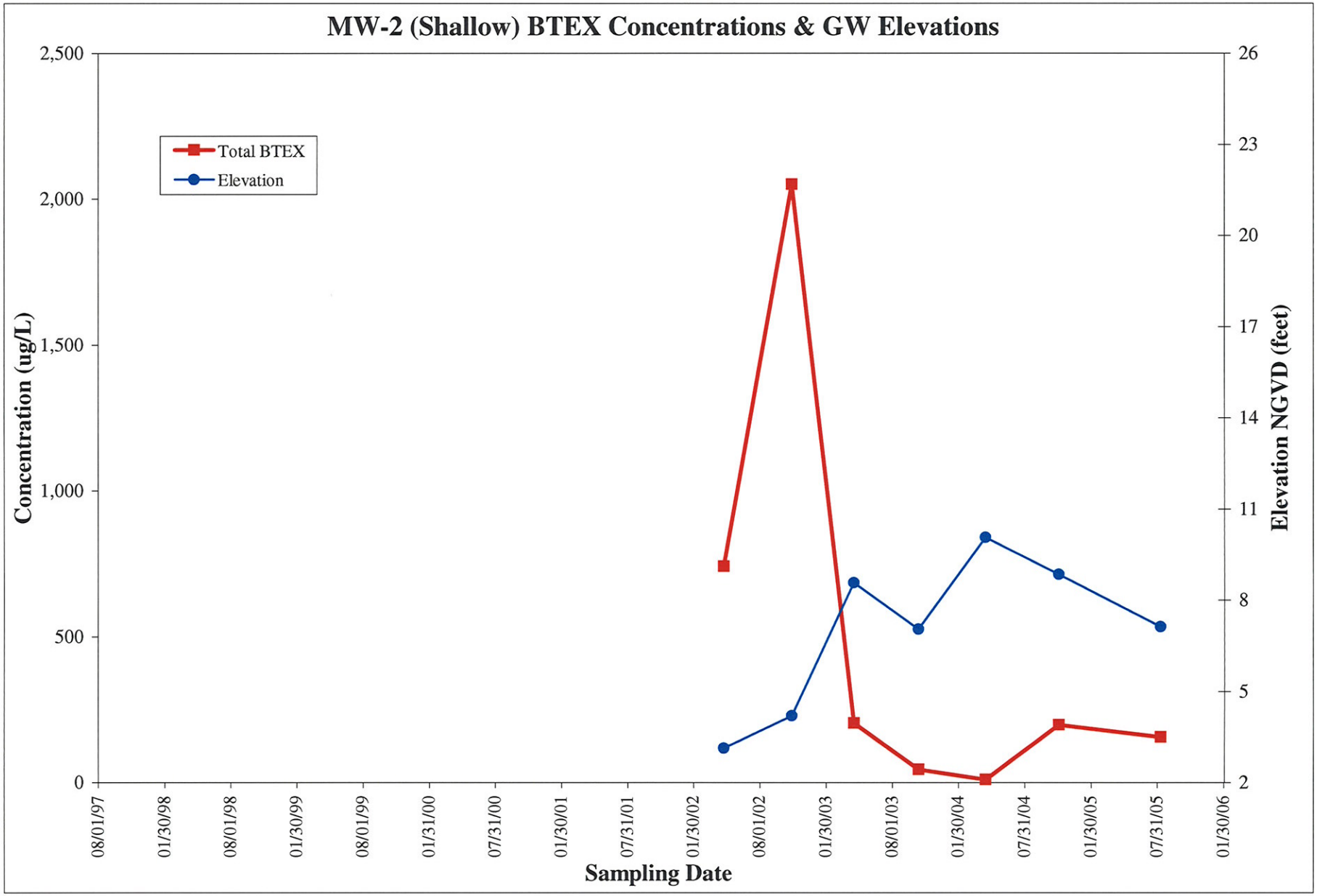
Type II Well: **MW-12**

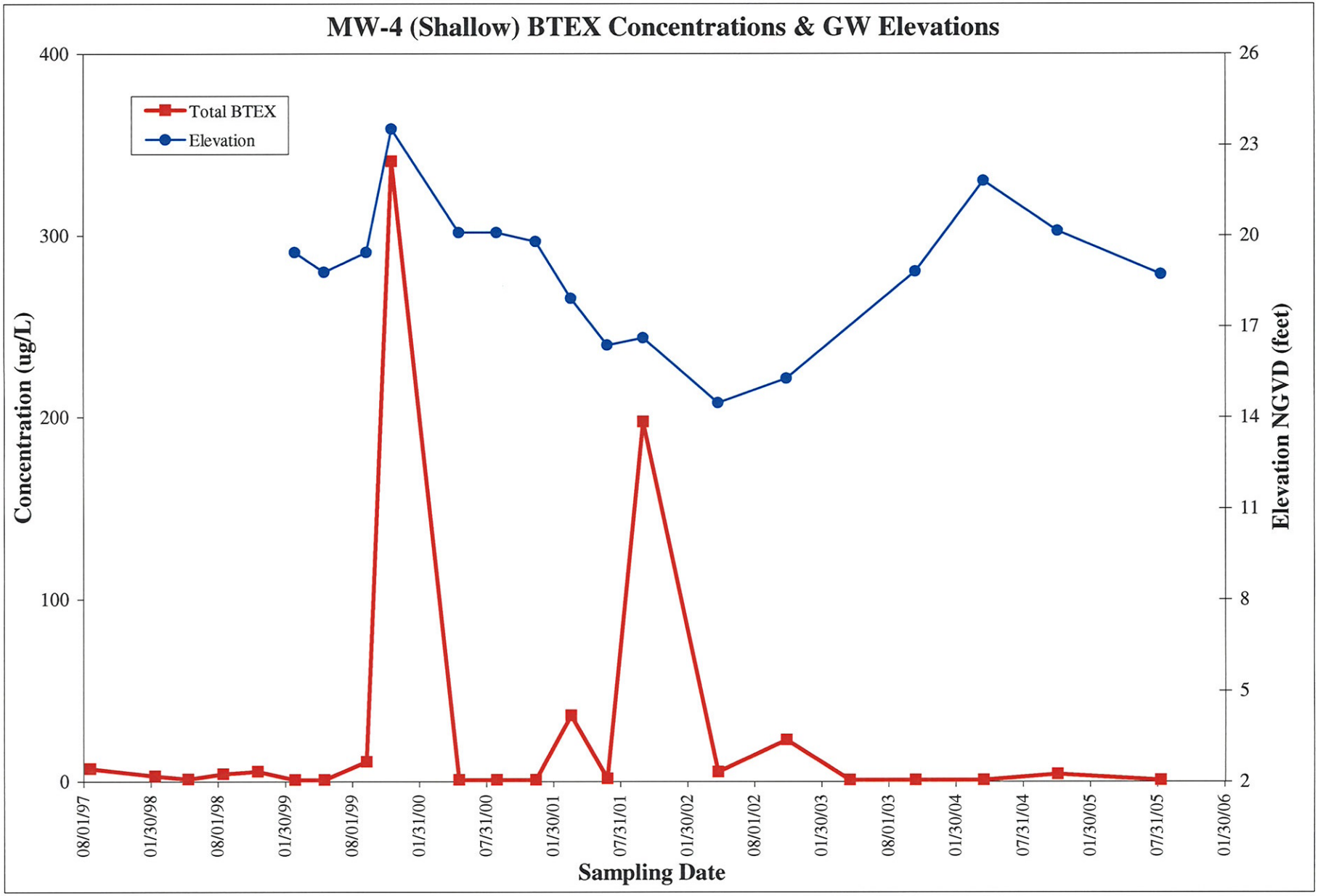
Client Sample ID:		143GW020	143GW050	143GW079	143GW113		143GW136	143GW148	143GW157	143GW174	143GW193	143GW206
Date Sampled:		08/19/97	02/11/98	05/12/98	08/15/98	11/17/98	02/26/99	05/18/99	09/10/99	11/17/99	05/18/00	08/29/00
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
EPA 601												
1,2-Dichlorobenzene	24	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2
1,3-Dichlorobenzene	170	<0.8	<0.8	<0.8	<0.8	<1	<1	<1	<1	<1	<1	<2
1,4-Dichlorobenzene	1.4	<1.5	<1.5	<1.5	<1.5	**0.36 J**	<1	<1	<1	<1	<1	<2
Dibromochloromethane	0.41	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
Chloroform	70	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
Chloromethane	2.6	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
1,2-Dichloroethane	70	NA	NA	NA	NA	NA	<1	<1	<1	<1	<1	<2
EPA 602												
Benzene	1	**0.13 J**	<0.5	**0.17 J**	**1.2**	**0.21 J**	**35.1**	**12.6**	**9.2**	**14.7**	<1	<1
Chlorobenzene	50	<0.5	**1.1**	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<2
Methyl tert-butyl ether	200	**0.27 J**	**11**	**0.75 J**	**1.4 J**	**1 J**	**5.1**	**5**	**10.3**	**2**	<1	**2.5**
Ethylbenzene	550	**0.075 J**	**0.17 JB**	<0.8	**0.49 J**	**0.29 J**	**7.5**	**4.4**	**10.3**	**28**	<1	<2
Xylenes (total)	530	**0.216 J**	**0.74 JBP**	**0.43 J**	**2.08 J**	<3	**12.6**	**9.6**	**102**	**106**	<3	<6
Toluene	1000	**0.2 J**	**0.34 JBP**	**0.91 JB**	**2.9 B**	**0.65 J**	**16.3**	**8.4**	**114**	**57.6**	<1	<2
Total BTEX		**0.621**	**1.25**	**1.51**	**6.67**	**1.15**	**71.5**	**35**	**235.5**	**206.3**		
EPA 610												
Chrysene	4.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	0.0479	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	2100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SW846-3010A												
Lead	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Bold type indicates detectable concentrations.										
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).										

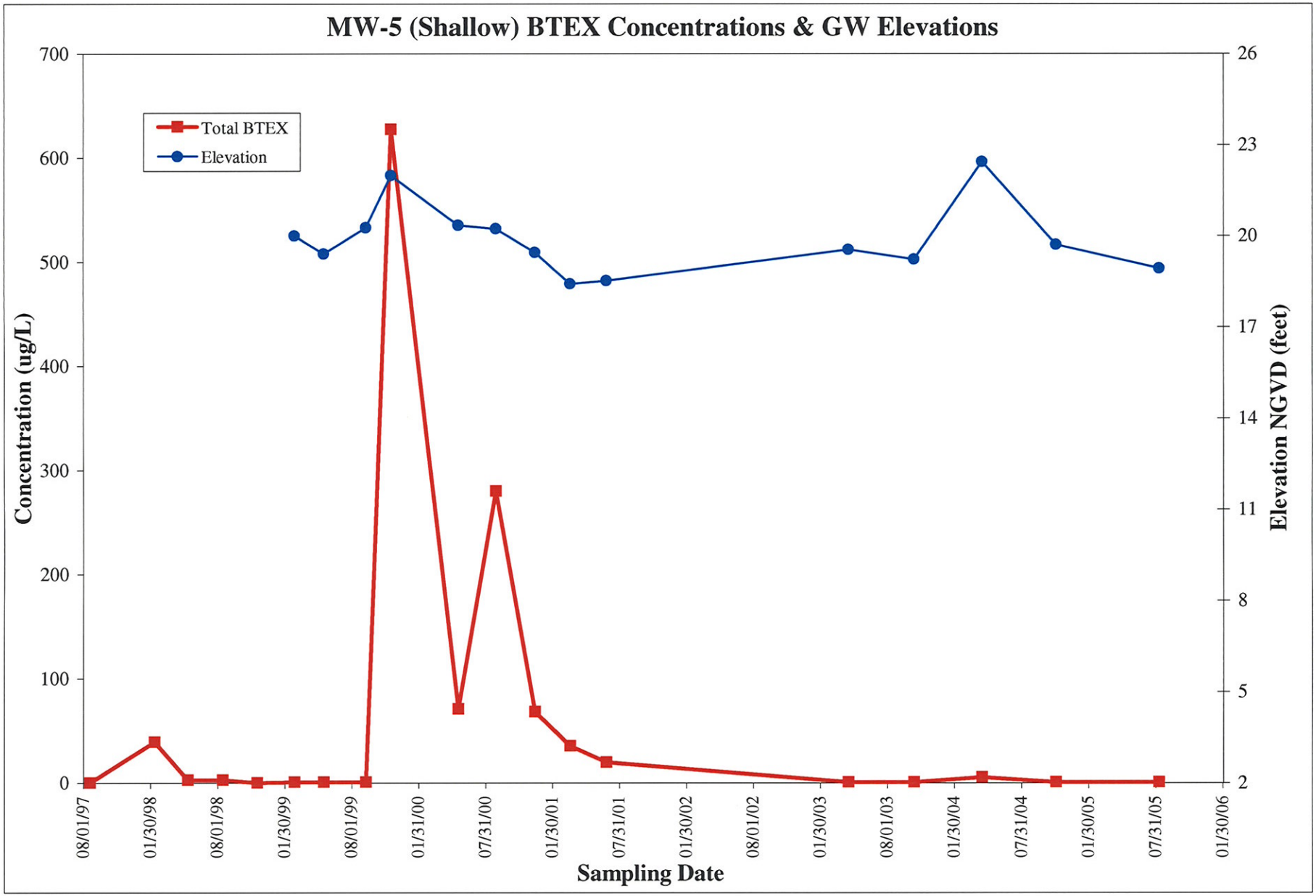
J= estimated
P= >25% difference between column quantitation
B= detected in blank
NA= not analyzed

Printed: 3/2/2006
Samples analyzed by Compuchem, STL, or Accutest

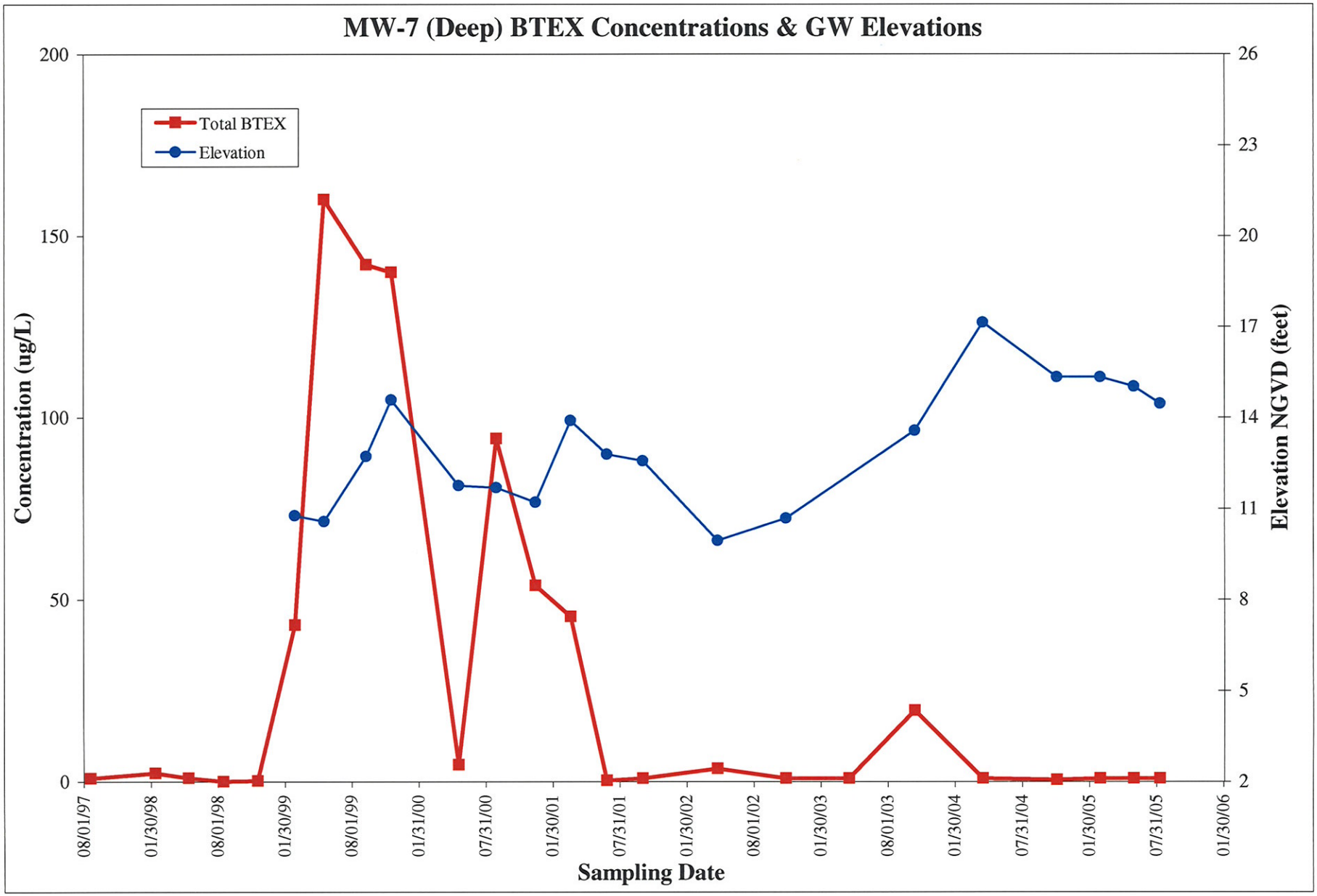
APPENDIX G
GROUNDWATER ELEVATION VS. BTEX CONCENTRATION GRAPHS

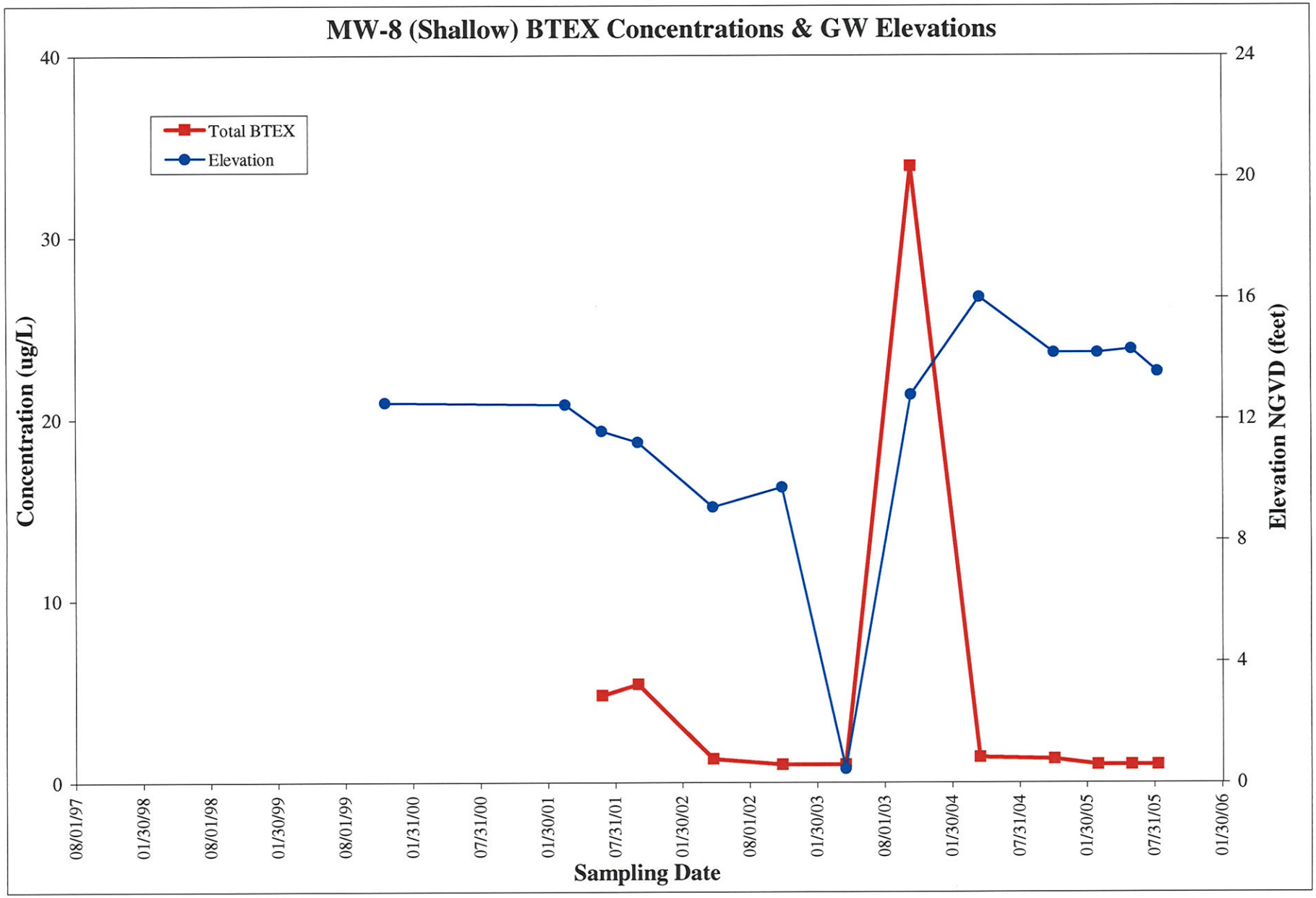

MW-2 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
2,500
2,000
1,500
1,000
500
0
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
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07/31/05
01/30/06

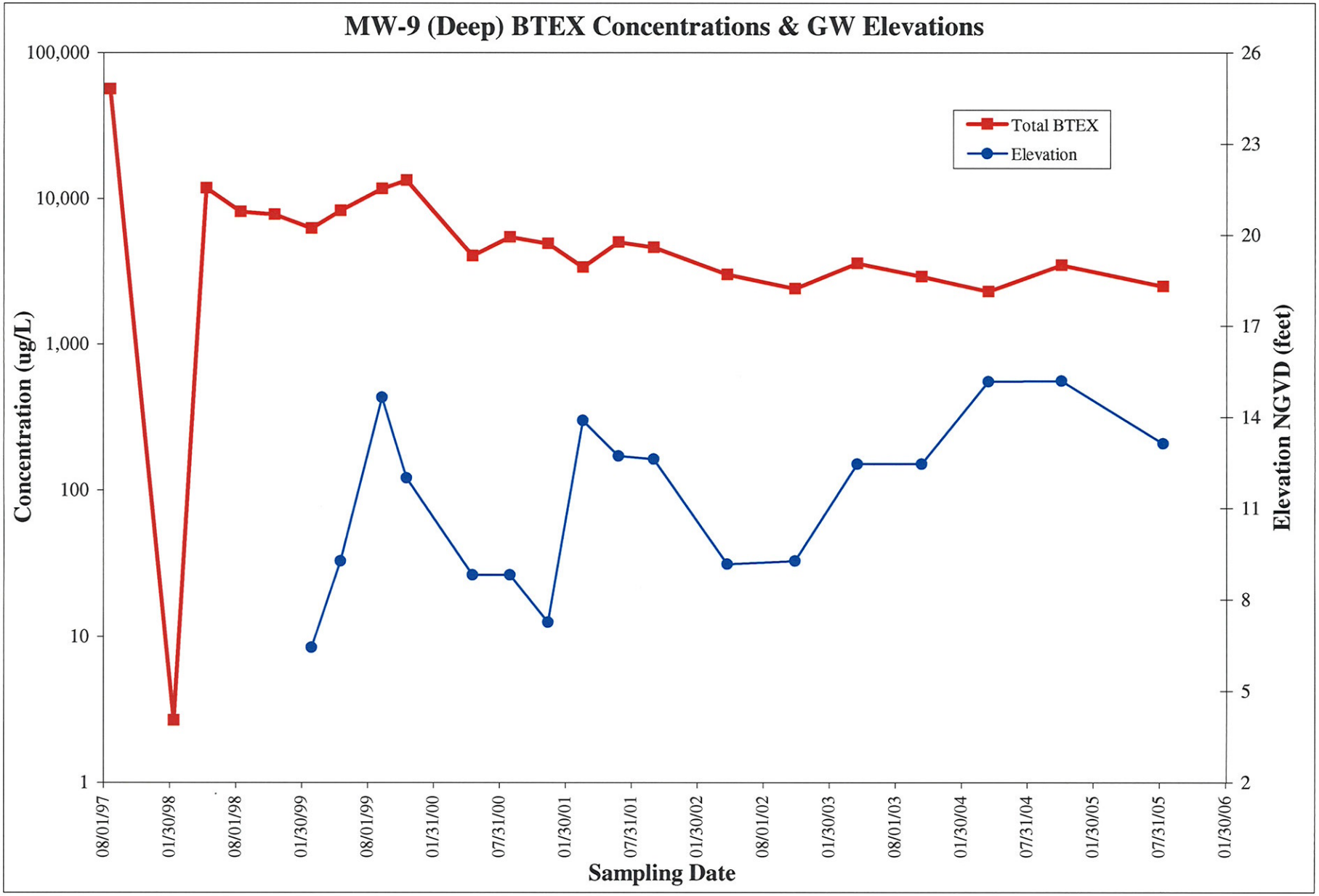

MW-4 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
400
300
200
100
0
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
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07/31/05
01/30/06

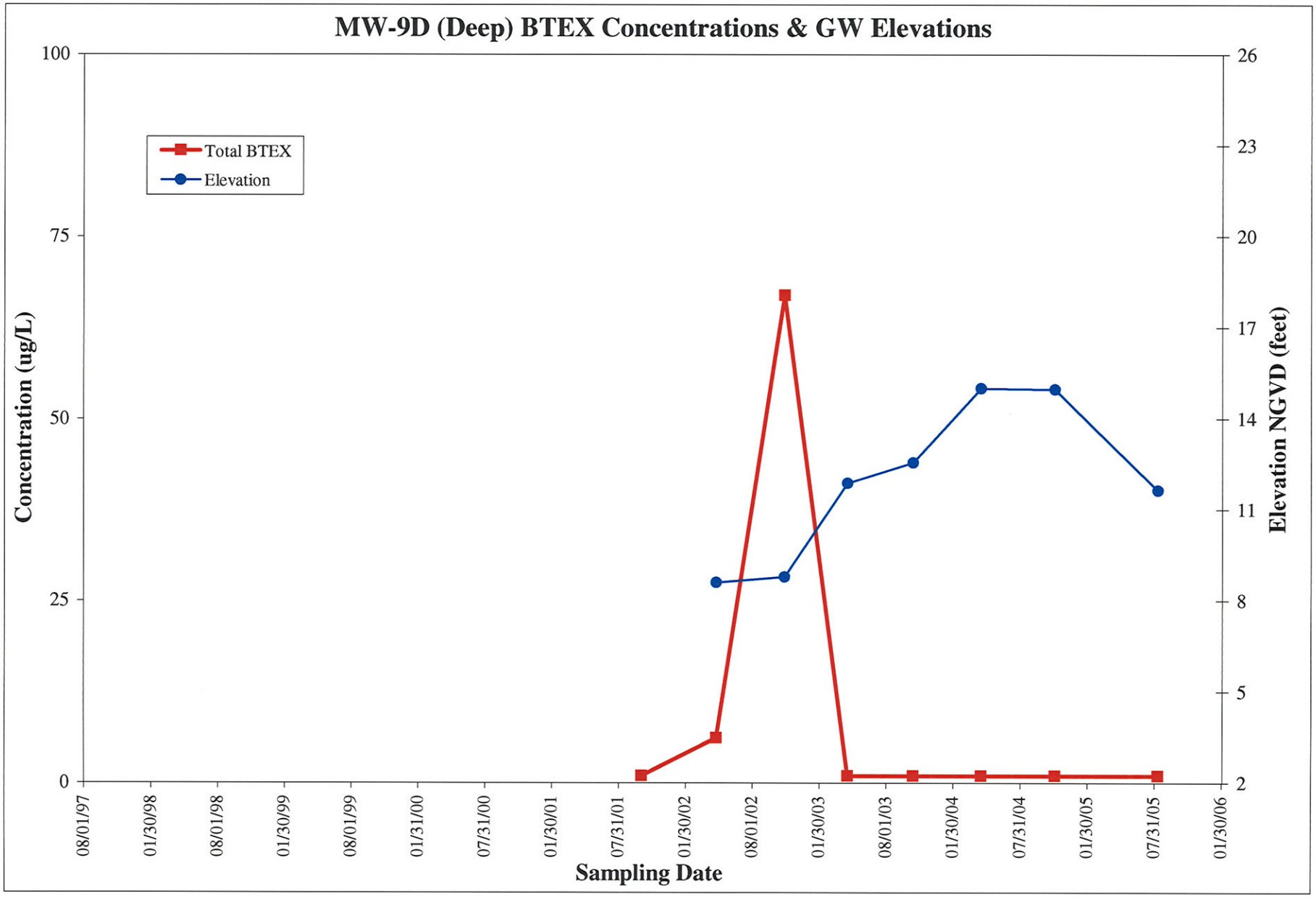


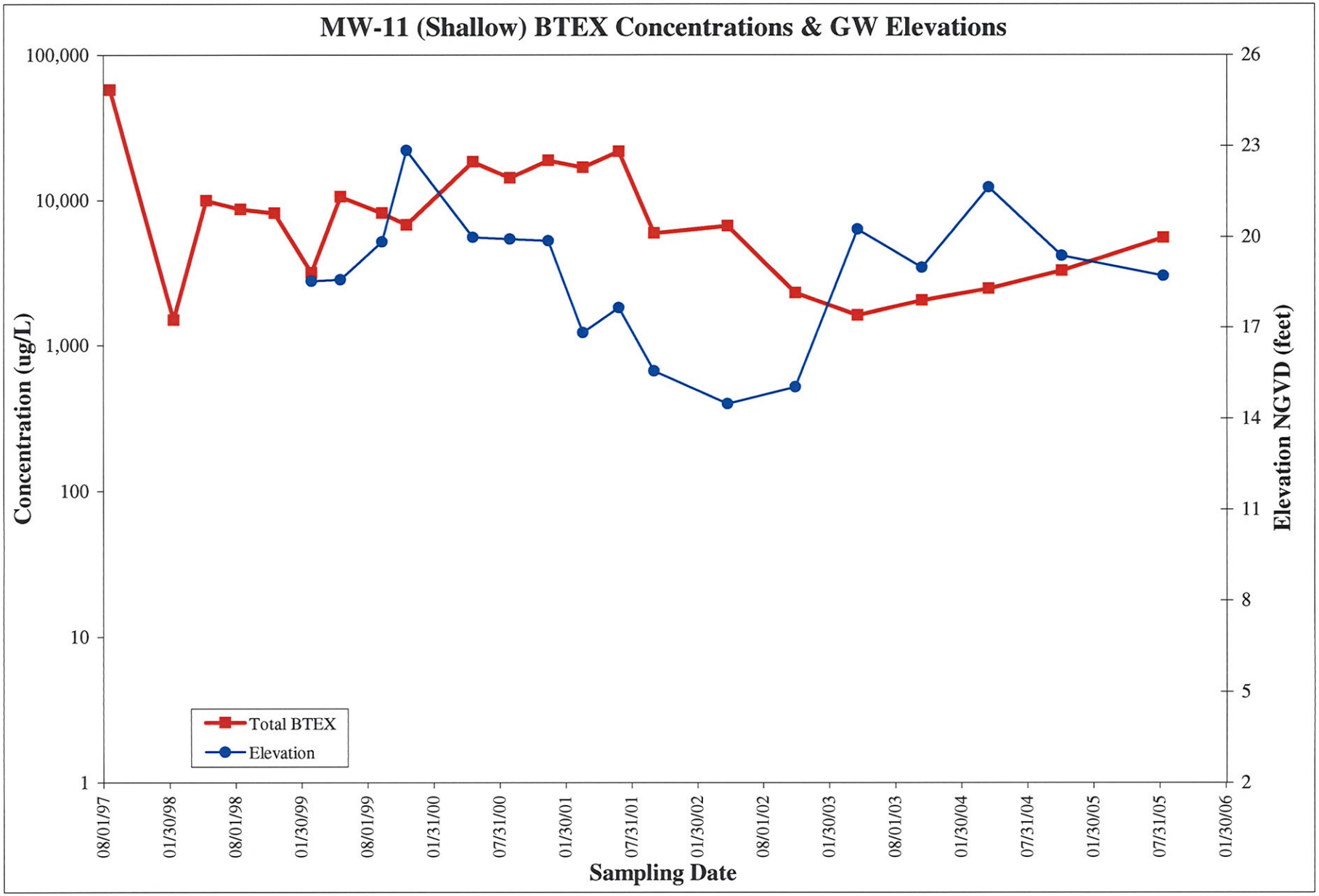
Well MW-5 was found to be dry starting on 10/02/01.

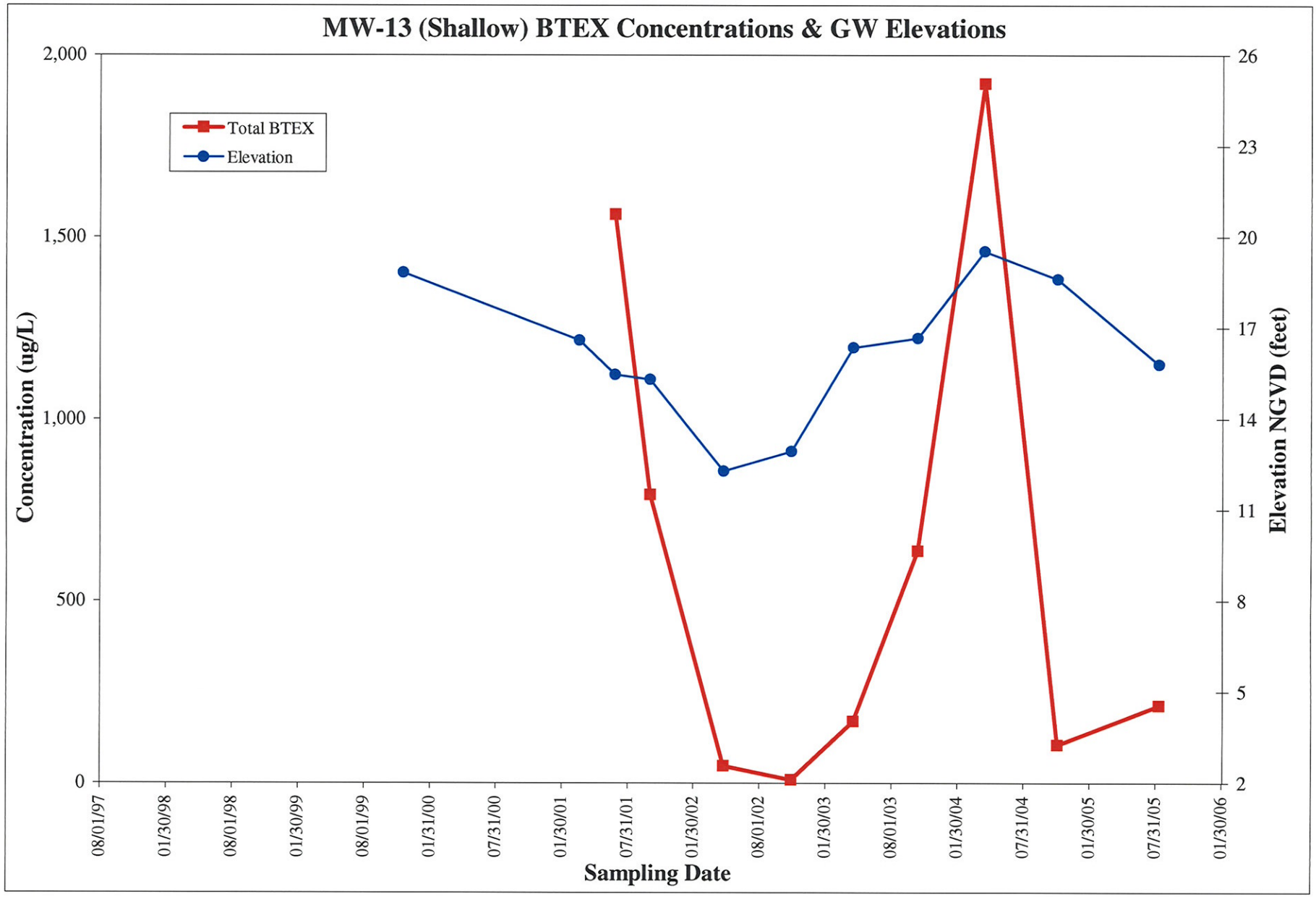

MW-7 (Deep) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
200
150
100
50
0
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
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07/31/05
01/30/06

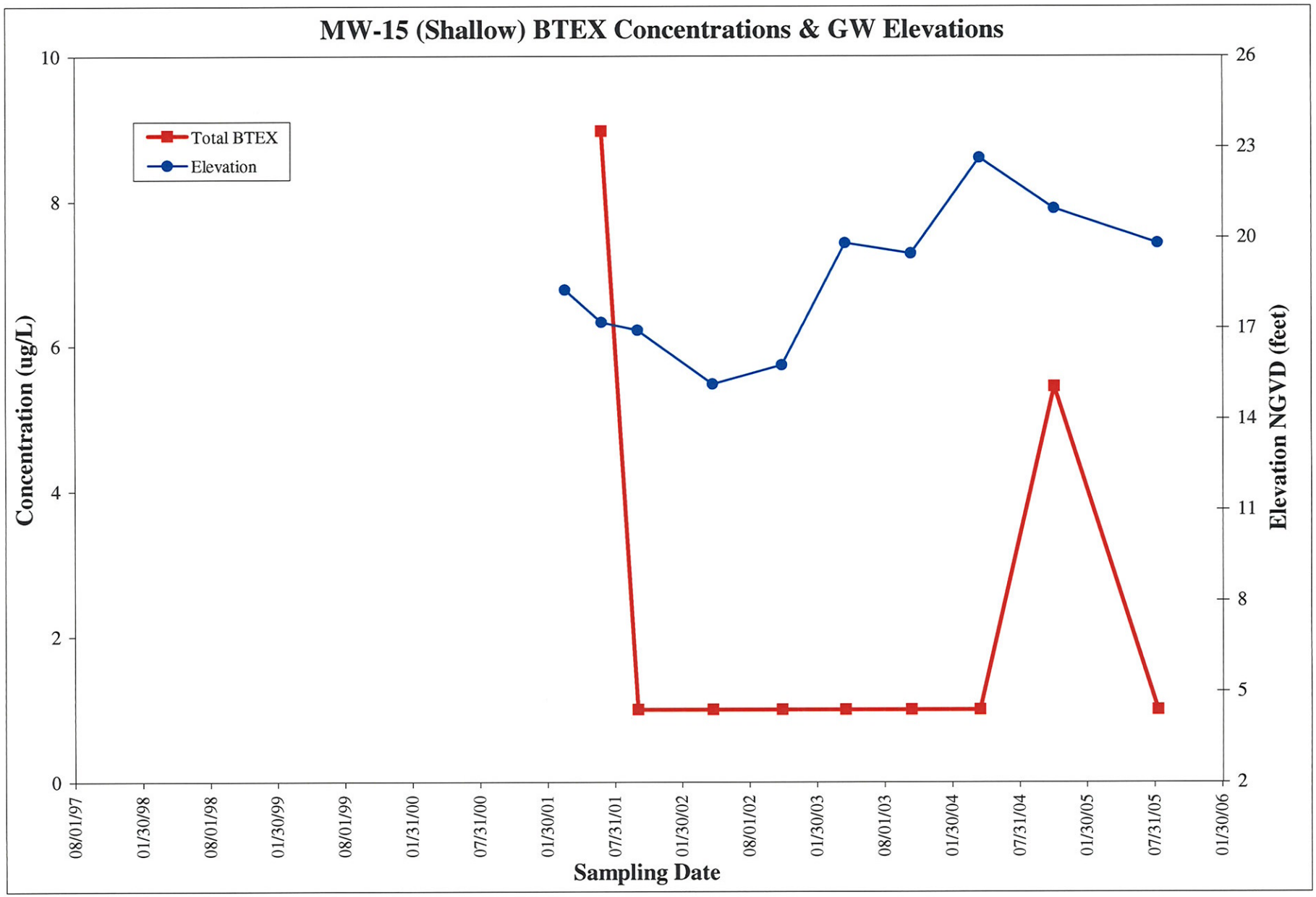

MW-8 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
0
10
20
30
40
0
4
8
12
16
20
24
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
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07/31/05
01/30/06

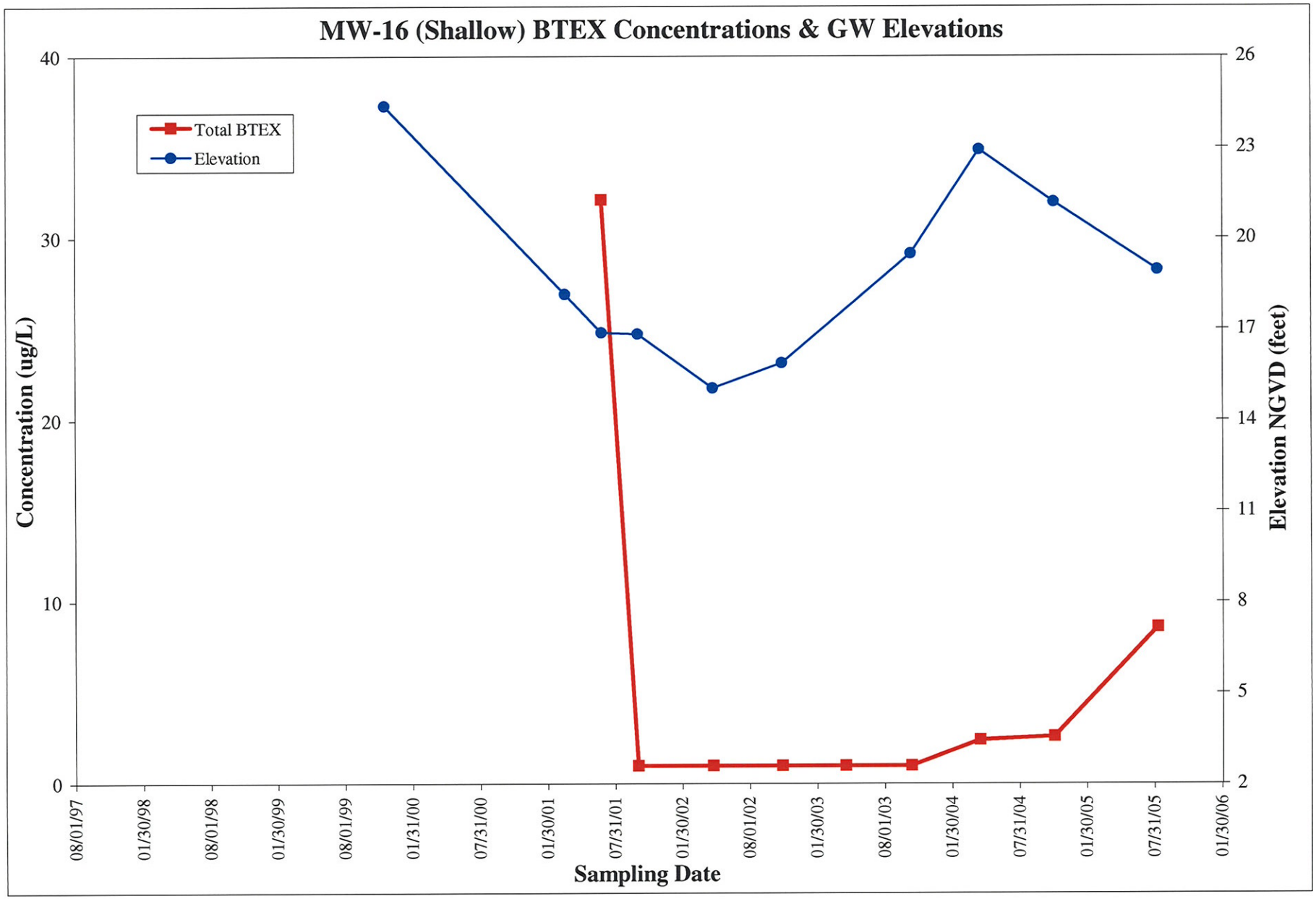

MW-9 (Deep) BTEX Concentrations & GW Elevations
Concentration (ug/L)
100,000
10,000
1,000
100
10
1
Elevation NGVD (feet)
26
23
20
17
14
11
8
5
2
Total BTEX
Elevation
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06
Sampling Date

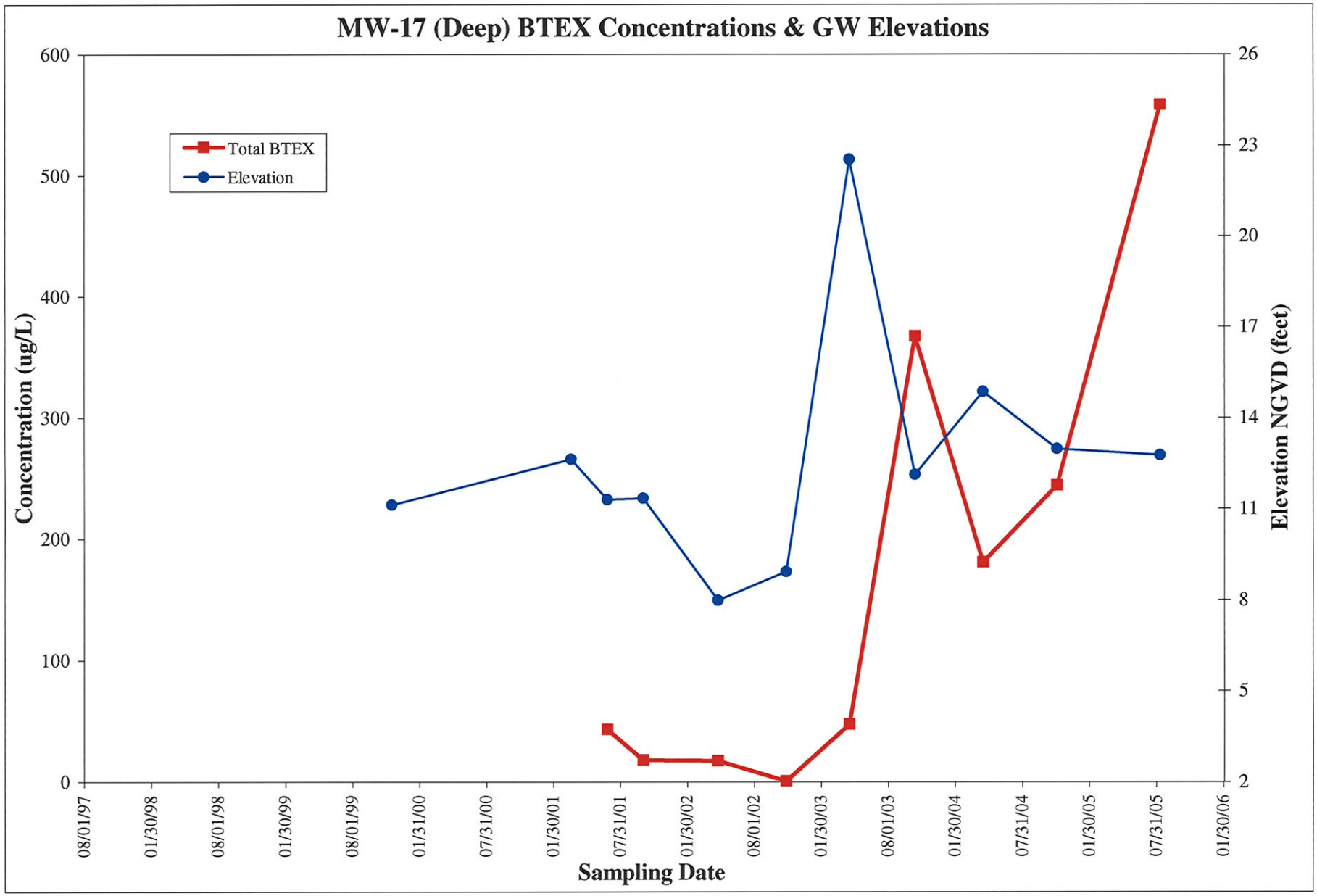

MW-9D (Deep) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
100
75
50
25
0
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06

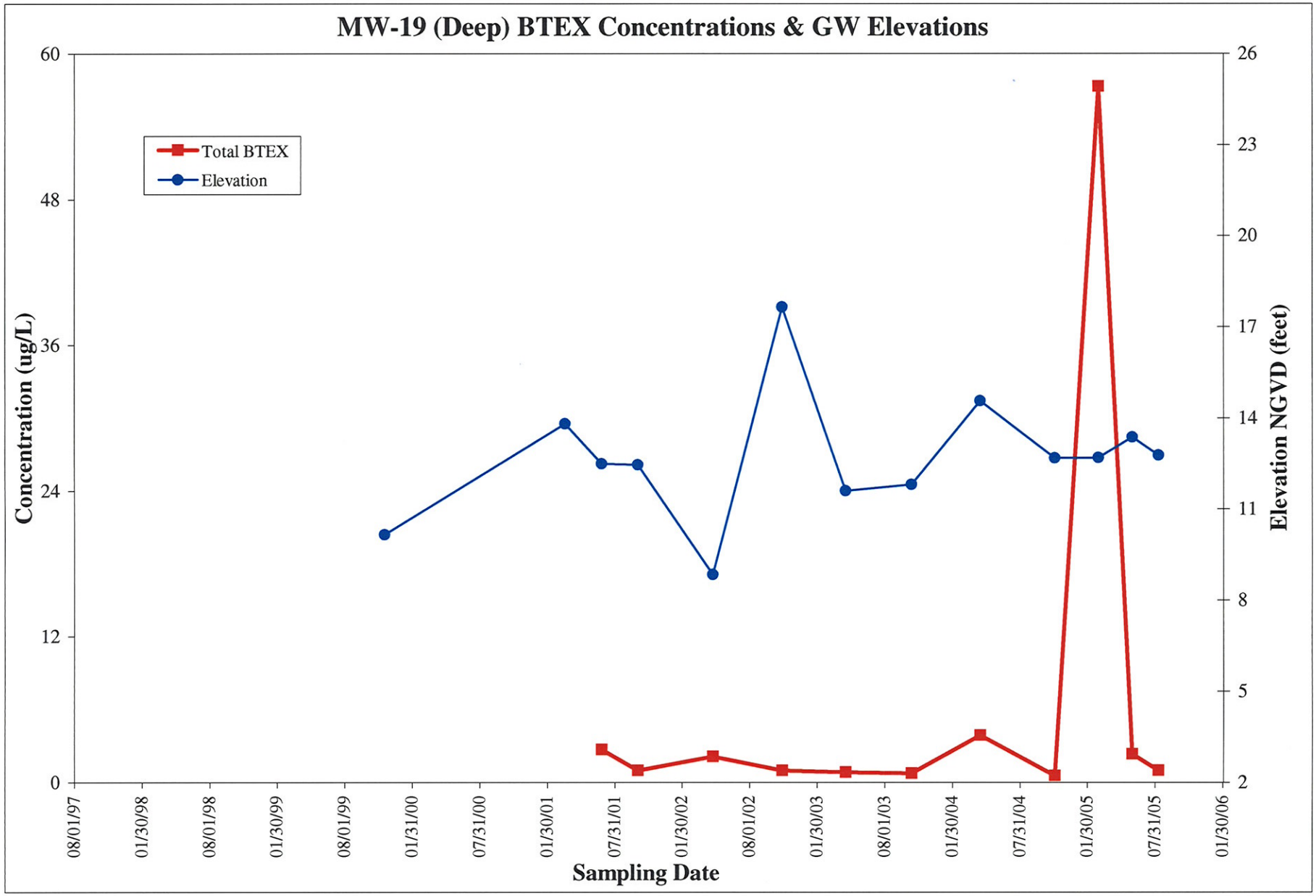

MW-11 (Shallow) BTEX Concentrations & GW Elevations
100,000
10,000
1,000
100
10
1
Concentration (ug/L)
26
23
20
17
14
11
8
5
2
Elevation NGVD (feet)
Total BTEX
Elevation
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06
Sampling Date

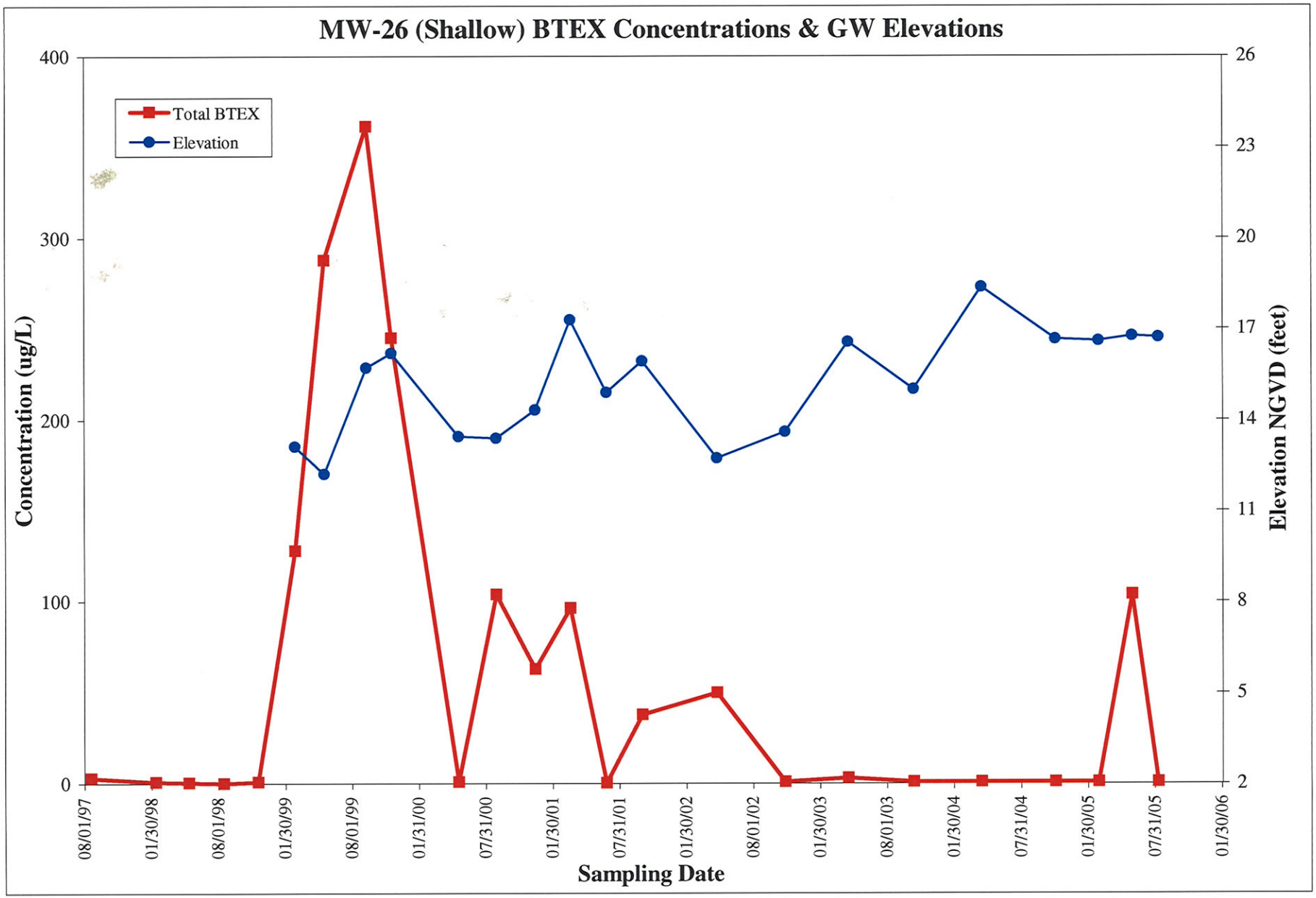

MW-13 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
2,000
1,500
1,000
500
0
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06


MW-15 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
0
2
4
6
8
10
2
5
8
11
14
17
20
23
26
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06


MW-16 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
40
30
20
10
0
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06


MW-17 (Deep) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
600
500
400
300
200
100
0
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06


MW-19 (Deep) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
0
12
24
36
48
60
2
5
8
11
14
17
20
23
26
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06


MW-26 (Shallow) BTEX Concentrations & GW Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
400
300
200
100
0
26
23
20
17
14
11
8
5
2
08/01/97
01/30/98
08/01/98
01/30/99
08/01/99
01/31/00
07/31/00
01/30/01
07/31/01
01/30/02
08/01/02
01/30/03
08/01/03
01/30/04
07/31/04
01/30/05
07/31/05
01/30/06