2005 ANNUAL AS/SVE MONITORING REPORT
HADNOT POINT FUEL FARM/BUILDING 1115 SITES
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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TITLE PAGE

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

UST Location:	Hadnot Point Industrial Area Former Hadnot Point Fuel Farm Along Ash Street Building 1115 Near Holcomb Boulevard and Ash Street Onslow County Camp Lejeune, NC 28562
UST Incident Number:	3671, 10615 and 22788
Facility ID Number:	0-002740
Risk Classification:	Intermediate
Land Use Category:	Industrial/Commercial
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 Camp Lejeune, NC 28542 (910) 451-5068
Date of Release:	Unknown
Quantity of Release:	Unknown
Source of Release:	UST system along with one AST
Latitude and Longitude:	34° 40' 18.891" N 77° 19' 56.7026" W

Tank Number	Installation Date	Tank Capacity	Tank Dimensions	Last Contents	Previous Contents
HPFF-1	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-2	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-3	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-4	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-5	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-6	Around 1941	12000	Unknown	Petroleum Products	Petroleum Products
HPFF-7	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-8	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-9	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-10	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-11	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-12	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-13	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-14	Around 1941	15000	Unknown	Petroleum Products	Petroleum Products
HPFF-15	Around 1941	600000 (AST)	Unknown	Petroleum Products	Petroleum Products
1100-1	1942	1000	Unknown	Gasoline	Petroleum Products
1100-2	1942	3000	Unknown	Gasoline	Petroleum Products
1100-3	1942	3000	Unknown	Gasoline	Petroleum Products
1100-4	1942	5000	Unknown	Unknown	Unknown
1100-5	1942	5000	Unknown	Unknown	Unknown
1100-6	1942	5000	Unknown	Unknown	Unknown
1100-7	1942	5000	Unknown	Unknown	Unknown

1.0 INTRODUCTION

This annual monitoring report presents the monitoring results collected from September 2004 through August 2005, describes current groundwater contamination conditions, and provides recommendations for the Air Sparge (AS)/Soil Vapor Extraction (SVE) treatment system located at Building 1115 and the former Hadnot Point Fuel Farm (HPFF) site. The report is submitted per the Corrective Action Plan (CAP) dated April 4, 1998 to remediate a release of petroleum and is in compliance with *Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater, Volume II, Petroleum Underground Storage Tanks*, published by the State of North Carolina's Department of Environment and Natural Resources (NCDENR) Division of Water Quality dated April 2001.

The report provides a brief account of the environmental history of the site, summarizes the original CAP, describes the installation and operation of the recommended remedial alternative, and provides a brief discussion of the Revised CAP that was completed in 2003. The report provides a discussion of monitoring results of the AS/SVE system's operation and the current status of groundwater quality compared to baseline data. The report also presents conclusions about remedial progress to date and makes recommendations for further system operation.

1.1 CAMP LEJEUNE MARINE BASE LOCATION AND DESCRIPTION

Located in Onslow County, North Carolina, Marine Corps Base (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 bound 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 SITE GEOLOGY/HYDROGEOLOGY

The project area is dominated by relatively flat topography. The nearest mapped body of surface water is Beaverdam Creek, located approximately 1,400 feet to the west of the Hadnot Point Fuel Farm/Building 1115 area. Surface water runoff from the site is diverted into a network of storm drains and shallow drainage ditches located across the site. Storm water collected by this system of drains and ditches ultimately discharges to the New River.

Sediment and stratigraphy at the site indicate a marine or near shore environment of deposition. Interfingering layers of very fine to fine grained sand, silty sand, and clayey sand occurs to a depth of approximately 12 feet below land surface (bls). Thin discontinuous beds of very fine to medium-grained sand, silty sand, sandy clay, and clay and peat with limited lateral continuity have been identified from 12 to 25 feet bls. Medium to fine-grained sandy clay, sand with minor silts, and clay with minor silts are typically encountered from below 25 feet bls to the limestone interface at an approximate depth of 40 feet bls. No continuous, confining layer has been identified during contamination assessment work at the site. However, numerous discontinuous thin beds of clay, sandy clay, and silty sand have been identified in the subsurface and may act as localized, small-scale confining units.

The groundwater aquifer is classified as GA groundwaters according to the North Carolina Administrative Code (NCAC) Title 2L Subchapter 15A, Section .0201 Groundwater Classifications. A Potential Receptor survey completed by CATLIN in 1998 did not identify any active potable water supply wells within 1,500 feet of the site, or the potential to impact surface water bodies near the site ("Leaking Underground Storage Tank Corrective Action Plan" dated 1998). Depth to groundwater ranges from 4 to 12 feet bls in shallow Type II monitoring wells. In general, the direction of groundwater flow at the site is to the south-southwest for the shallow groundwater and a westward flow for the intermediate and deep groundwater.

1.3 HADNOT POINT BUILDING 1115 FUEL FARM SITE DESCRIPTION

The site is located in the Hadnot Point "mainside" area of MCB Camp Lejeune, North Carolina *(Figure 1.2)*. The project area, the Hadnot Point Fuel Farm/Building 1115, is generally bound by Holcomb Boulevard to the north, Michael Road to the south, Birch Street to the west, and the Vehicle Ready Fuel Storage facility and Temporary Fuel Farm (off Michael Road) to the east.

The project area consists of two primary source areas: the HPFF (Southeast Compound) and the former underground storage tanks (USTs) associated with Building 1115 (Northwest Compound). Free-phased product has been observed and dissolved-phase contamination appears to have migrated from the source areas and commingled to form a continuous plume of groundwater contamination.

1.3.1 Hadnot Point Fuel Farm Area

The HPFF was constructed in about 1941 and consisted of 15 fuel storage tanks including: one 600,000-gallon aboveground storage tank, six 12,000-gallon USTs, and eight 15,000-gallon USTs. The tanks contained diesel fuel, gasoline, unleaded gasoline, and kerosene. There have been numerous recorded losses of product including diesel and unleaded gasoline. Most of the losses likely occurred because of leaks in transfer lines or transfer line valves. Leaks in the fuel lines and tanks were documented as early as 1979.

1.3.2 Building 1115 Area

Building 1115 was constructed as a fleet service and refueling area. Seven USTs were located west of the building. Three of the USTs contained gasoline and the other four contained either diesel or gasoline. There have been no reports of known releases from the tanks or distribution system associated with Building 1115. Closure of the seven USTs, which consisted of excavation and removal, was completed in March 1993. Free-phase product was observed in the tank excavation during the UST closure activities.

2.0 CONTAMINATION INVESTIGATION HISTORY

2.1 HADNOT POINT FUEL FARM AREA

The HPFF area has been the focus of numerous soil and groundwater investigations. A Verification Step Study for the Hadnot Point Industrial Area (HPIA) was completed in 1985, and a Characterization Step Report for the HPIA was completed during 1988. These investigations identified the presence of dissolved fuel constituents and/or free product associated with the shallow groundwater.

A Contaminated Groundwater Study was completed in December 1988 to investigate the site hydrogeology and delineate the contaminated groundwater plume. The study identified the presence of free product and dissolved contaminants of concern (COCs) that included: benzene, toluene, ethylbenzene and xylenes (BTEX); methyl tertiary butyl ether (MTBE); trichloroethene (TCE); and tetrachloroethane (PCA).

In 1991, a free-product recovery system consisting of five free-product recovery wells was installed at the HPFF. The system was operated through 1997 when it was discontinued in favor of Aggressive Fluid/Vapor Recovery (AFVR) activities. An estimated 27,000 gallons of free product were recovered by the system. In September 1999 three of the recovery wells (16R, RW4, and RW5) were brought back on line.

A Comprehensive Site Assessment (CSA) was completed in June 1997. Results of this investigation identified soil contamination, free-phase product contamination, and dissolved-phase groundwater contamination at the HPFF. However, the CSA did not delineate the extent of the soil contaminant plume, the downgradient extent of the free product, or the downgradient and vertical extent of the dissolved contaminant plume.

2.2 BUILDING 1115 AREA

A limited site assessment consisting of 10 monitoring wells was completed in October 1993. The findings of the assessment revealed that soil contamination, free-phase product contamination, and dissolved-phase groundwater contamination existed at the site. Additional contamination assessment work completed from 1993 through 1995 required the installation of monitoring wells to depths ranging from 10 feet deep (shallow), 50 feet deep (intermediate), and 100 feet deep (deep aquifer). Soil and groundwater analytical results provided additional information (but did not completely

delineate) on the extent of the soil contamination, and the existence of free-phase product, as well as the horizontal and vertical extent of dissolved contamination. Subsequent contamination assessment investigations completed in 1997 further defined the extent of contamination at the site. This information was used to develop the initial CAP that was submitted and subsequently approved by the NCDENR in April 1998.

2.3 CORRECTIVE ACTION PLAN

A potential receptor survey was performed during preparation of the CAP. No active water supply wells were identified within 1,500 feet of the site. The nearest active supply well at the base, HP-642, is located upgradient of the groundwater flow approximately 2,600 feet east-southeast of the project site. The nearest mapped body of surface water is Beaverdam Creek, located approximately 1,400 feet to the west of the site. A Natural Attenuation Fate and Transport Study determined contaminants at the site would not adversely affect the surface waters of the creek.

The remedial goals of the original CAP were as follows:

- Contain the free-product plumes to prevent further migration and remove accumulations of free product to the extent practicable.
- Reduce levels of unsaturated zone soil contamination in selected areas to less than the Action Levels as specified by the NCDENR.
- Prevent further migration of contaminated groundwater in the core or "hot spot" of the upper portion of the plume (less than 50 feet deep) through active remediation. The goal is to contain the "hot spots" and reduce their impact on the quality of the surrounding groundwater, as well as reduce contaminant concentrations to a level that natural degradation and attenuation can complete the remediation process.
- Reduce groundwater contamination in the "hot spots" of the lower portion of the dissolved plume (below 50 feet deep).
- Demonstrate that the natural processes of degradation and attenuation of contaminants is occurring in the fringe areas of both the upper and lower dissolved contaminant plumes.

Table 2.1 provides Site Rehabilitation Goals presented in the CAP. Contaminants identified in the CAP above State Action Levels and NCAC T15A:02L Groundwater Quality Standards at the site include:

- Gasoline-range Organic Total Petroleum Hydrocarbons (TPH-GRO) and Diesel-range Organic Total Petroleum Hydrocarbons (TPH-DRO)
- BTEX
- Naphthalene
- Tetrachloroethene (PCE)
- 1,2-Dichloroethene (DCE)
- Trichloroethene (TCE)
- 1,2-Dichloropropane
- trans-1,2-Dichloroethene

Based on the remedial technology screening process completed during development of the CAP, the most cost-effective remediation strategy for the HPFF/Building 1115 site included the following:

- AFVR for removal of free product
- Installation of free product recovery trenches along the leading edge of the free-product plumes to augment the AFVR (The trenches at the NW compound were not installed because free-phase product was not observed during system installation). The trenches at the SE compound were replaced with a dedicated free product recovery system comprised of existing and some new recovery wells.
- Soil vapor extraction for reduction of unsaturated soil remediation
- Air sparging for the containment and reduction of "shallow" dissolved hydrocarbons coupled with vapor collection and discharge to the atmosphere of petroleum hydrocarbon vapors
- Biosparging for reduction of "deep" dissolved hydrocarbons
- Natural attenuation of low concentrations of dissolved-phase petroleum constituents in the "shallow" and "deep" portions of the aquifer

2.4 REVISED CORRECTIVE ACTION PLAN (CAP)

CATLIN Engineers and Scientists submitted a CAP Addendum to the NCDENR titled "*Revised Corrective Action Plan for Hadnot Point Fuel Farm*" and dated June 13, 2003. The addendum was prepared following additional soil assessment activities, groundwater investigation work, and completion of a long term groundwater pumping test completed

by CATLIN. Recommendations of the Revised CAP included continued operation of the existing AS/SVE systems, continued AFVR events, installation of a Bio-Pulse Sparging system, and installation of a groundwater recovery well.

The objective of the Revised CAP is to propose revisions to the existing remediation systems that will remove free product from the subsurface to the extent practical, reduce contaminated soils to below State Action Levels and reduce groundwater contamination to North Carolina 2L Groundwater Quality Standards (GWQS).

Based on the remedial technology screening process completed during development of the Revised CAP, the most cost-effective remediation strategy for the HPFF/Building 1115 site included the following:

- Continued operation of the existing air sparge/biosparge/vapor extraction systems at the Northwest and Southeast Compounds;
- Installation of a bio-pulse sparge system consisting of 25 strategically located vertical sparge wells installed to a depth of 150 feet bls;
- Achieving hydraulic containment of the contaminant plume by initiating groundwater recovery and treatment by pumping groundwater recovery well HPFF-75 at a rate of 30 gpm;
- Rehabilitation of the existing groundwater treatment system located at the Southeast Compound equipment area to treat the recovered groundwater; and
- Due to the apparent effectiveness of AFVR at the site, continue AFVR events to reduce the amount of free phase product at the site.

2.5 GEOPHYSICAL INVESTIGATION

A geophysical investigation was initiated in December 2001 and completed in May 2002 to better understand the site hydrogeologic characteristics that might be influencing both free product and high dissolved contaminant concentrations observed in the deep aquifer (greater than 70 feet below the groundwater surface) at the Hadnot Point Fuel Farm. The working hypothesis developed to explain these conditions included:

- Dissolution of limestone
- Formation of voids and channels that "trap" fuel and serve as protected environments to weathering
- Depth of fuel observed at the site enhanced by drought conditions and aggressive pumping from "deep" water supply wells at the base

- Heavy rain events (i.e., hurricanes) result in flooding of voids
- Re-introduction of contaminants into the aquifer

It should be noted that the Air Injection and Bio-Sparge component of the remedial system was shut down November 26, 2001 to avoid interference during geophysical data collection activities. The system was restarted on January 30, 2003. The 2003 Annual monitoring report discussed the startup of the Air Sparge system. Geophysical investigation methods employed at the site included:

- Borehole methods (natural gamma/caliper, optical televiewer, full waveform sonics, EM induction)
- Vertical Seismic Profile (VSP)
- Multiazimuth-multioffset
- DC Resistivity (DCRES)
- Surface Reflection Seismic Profiling
- Drilling log data
- SCAPS Direct Push Method (Laser Induced Fluorescence [LIF], Cone Penetrometer Test [CPT], video probe)

Results of the geophysical investigation are presented in the report titled "*Geophysical Investigation at the Former Fuel Farm Facility and Surrounding Areas, Hadnot Point, MCB Camp Lejeune, North Carolina*", dated May 2002 as completed by Geophex, Ltd, located in Raleigh, North Carolina. Conclusions developed from the geophysical investigation indicate:

- The subsurface can be divided into two units; an upper unit of unconsolidated, inter-fingering peat, sands, silts, and clays: a lower unit comprising of all semi-consolidated and consolidated sediments below the top of the Castle Hayne.
- No discernable, laterally continuous layers occur within the upper unit of sediments. However, the resistivity profiles delineate zones of decreased electrical resistivity that are interpreted to indicate increased hydrologic conductivity. These zones are predominantly logged as well sorted fine sands in drill logs.
- The top of the Castle Hayne Formation is clearly discernable from the seismic reflection data. The interpreted Castle Hayne reflection horizon displays erosional undulations, and offsets due to near vertical faulting or fracturing. Fault/fracture zones are interpreted to represent potential pathways for both horizontal and vertical migration of groundwater contaminants.

- Vertical seismic profiles indicate that the largest amplitude reflections at Hadnot Point correlate to limestones, but changes from silty sand to well sorted sand also produce observable reflections.
- Multichannel Analysis of Surface Waves (MASW) data illustrate the occurrence of a collapse feature in the western corner of the site, near Holcomb Boulevard.
- The potential for contaminant migration to depth exists in two main locations: 1) where zones of high hydrologic conductivity coincide with zones of vertical faults/fractures in the Castle Hayne, near the intersection of East Road and Ash Street; and 2) in the northwest corner of the site where a subsurface void or collapse was drilled and confirmed by MASW data. This feature is also overlain by conductive sediments.
- The permeable pathway identified in the resistivity data appears to be bound to the east and west (and possibly the south), but continues to the northwest. The southern extent coincides with the most fractured area of the Castle Hayne.

2.6 ADDITIONAL SOIL SAMPLING AND ANALYSIS

As requested during the February 28, 2002 Partnering Meeting an additional soil sampling and analysis investigation was completed at the former UST basin area at the former Hadnot Point Fuel Farm UST site during the week of June 17, 2002. Soil samples were collected using a hand auger from 0 to 14 feet bls. A sample was collected at 2 feet depth intervals. The soil sample was placed in a plastic bag, allowed to equilibrate for 15 minutes, then screened using an organic vapor analyzer (OVA) equipped with a flame ionization detector (FID). The sample with the highest FID reading was then tested on-site for total petroleum hydrocarbons (TPH) using an Ensys™ Petro Soil Test by EPA Method 4030. Additionally, 17 samples were sent to Accutest Laboratory located in Orlando, Florida for analysis using MADEP-EPH, MADEP-VPH, and total petroleum hydrocarbons. Laboratory results correlated well with field data.

Field and laboratory analytical results suggest the presence of high levels of soil contamination starting at approximately six feet bls. This contamination appears to increase with depth. Results of the additional soil investigation were submitted in a letter report from the United States Marine Corps to the NCDENR.

3.0 SYSTEM OPERATION AND RESULTS

3.1 BUILDING 1115 AREA (NORTHWEST COMPOUND)

OHM installed a network of five, 50-feet deep AS wells to inject air into the subsurface groundwater. To recover volatile organic hydrocarbons (VOHs) from the unsaturated zone, an SVE well consisting of four 20-foot sections of horizontal screen set up in a cross pattern was installed at each AS well and at four additional locations. Twelve additional 80-feet deep biosparging wells and four 100-feet-deep biosparging wells were also installed (*Figure 3.1)*. Operational data collection from the AS/SVE system began on February 11, 1999 and has continued at regular intervals to the present.

This report discusses the system's operation and monitoring results collected from September 2004 through August 2005. During the time period from September 2004 through August 2005 the system was in operation approximately 70% of the time. The significant downtime was caused predominately by excessive groundwater recovery by the SVE system. In addition, minor downtime periods ranging from one day to a few days duration occurred as a result of minor equipment repairs, and routine maintenance. The remedial system was in operation a total of 250 days for an operational efficiency of 68 percent.

Remedial system monitoring was conducted at least weekly during this operational period. During site inspections, a checklist was used to record operational measurements and conditions such as vacuum blower meter hours, inlet filter differential pressure, and bleed air valve positions. This information was used to identify areas requiring maintenance (such as filter replacement) and to fine-tune the system's operation.

The AS/SVE system was inspected on a weekly basis. Each individual well vault was examined. The system's components were checked and indicators of operational performance (such as vacuum, air velocity, and temperature) were recorded. These inspections help to identify equipment maintenance needs. Additional monitoring of the system included the measurement of organic vapor concentrations in the system's effluent.

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

system startup, a total of 15,514 pounds of hydrocarbons has been recovered from the Building 1115 Area (Northwest Compound) (*Table 3.1*). During this monitoring period, a total of 765 pounds of hydrocarbons were recovered. Hydrocarbon recovery rates ranged from 5.9 pounds per day (lbs/day) to less than 1.0 lb/day when the system was in operation. The average recovery rate was 3 lbs/day. This is a slight increase in hydrocarbon recovery from the previous year. In 2004, a total of 537 lbs of hydrocarbons were recovered with hydrocarbon recovery rates ranging from 5.3 lbs/day to less than 1.0 lbs/day.

A descending trend in recovery rates from start-up to the present can be observed in the data. During 1999, a total of 10,300 lbs of hydrocarbons was recovered. The recovery rate decreased to 3,540 lbs recovered in 2000, 1,900 lbs recovered in 2001, 900 lbs recovered in 2002, 533 lbs recovered in 2003, and 537 lbs recovered in 2004. During this operating time period vapor recovery increased slightly to 765 lbs recovered. This represents a decrease of 95% from initial system vapor recovery rates. This trend is typical of the operation of SVE systems. As adsorbed-phase petroleum compounds are removed from the unsaturated zone, recovered hydrocarbon vapor concentrations will decrease.

There were no major changes made to the system's configuration or equipment during this operating time period.

3.2 HPFF FUEL FARM AREA (SOUTHEAST COMPOUND)

OHM installed a network of thirty, 50-foot-deep AS wells to inject air into the subsurface groundwater. To recover VOHs from the unsaturated zone, an SVE well consisting of four 20-foot sections of horizontal screen set up in a cross pattern were installed at each AS well and at six additional locations. Ten additional 85-feet-deep biosparging wells were also installed. For operational purposes, the southeast compound's system has been subdivided into a northern Field #1 (Motor Pool) and a southern Field #2 (Fuel Farm) (*Figure 3.2)*. In April 2005 an additional nine 50-foot deep AS wells were installed in accordance with recommendations in the Revised Corrective Action Plan. The locations of the new AS wells (shown in pink) are presented in *Figure 3.2*.

During 2004, the AS/SVE system was upgraded, since the existing groundwater treatment system had not been operated prior to installation of the remediation wells in February 1999. The groundwater treatment system consisting of an air stripper, oil/water separator, surge tank, bag filters and four 55-gallon liquid phase granular activated

carbon canisters was upgraded to treat groundwater from the recovery well (HPFF-75) recommended in the Revised CAP. The upgrade consisted of replacing all the electrical components including the control panel, level controls, and wiring; replacing the transfer pumps from the oil/water separator, the surge tank and the air stripper sump; piping; two bag filter housings; and two 1,000 pound carbon canisters. The groundwater recovery and treatment system was brought on line in September 2005.

Operational data collection from both the Field #1 and Field #2 AS/SVE systems began on April 4, 1999 and has continued at regular intervals to the present. This report discusses the system's operation and results collected from September 2004 through August 2005.

During the time period from September 2004 through August 2005 no significant downtime of the SVE system (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 and routine maintenance. The remedial system was in operation a total of 317 days for an operational efficiency of 87 percent.

Remedial system monitoring was conducted at least weekly during this operational period. During site inspections, a checklist was used to record operational measurements and conditions such as vacuum blower meter hours, inlet filter differential pressure, and bleed air valve positions. This information was used to identify areas requiring maintenance (such as filter replacement, hour meter replacement) and to fine-tune the system's operation.

The AS/SVE system was also inspected on a weekly basis. Each individual well vault was examined. The system components were checked and indicators of operational performance (such as vacuum, air velocity, and temperature) were recorded. These inspections help to identify equipment maintenance needs. Additional monitoring of the system included the measurement of organic vapor concentrations in the system's effluent.

Hydrocarbon recovery from the system was calculated from operational parameters such as organic concentrations, exhaust stack pressure, velocity and temperature. These parameters were used to compute the cumulative mass of hydrocarbons recovered. Since

startup, the HPFF Southeast Compound remedial system has recovered approximately 1,225,000 pounds of hydrocarbons.

3.2.1 Field #1 Motor Pool Area

Since system startup, the Field #1 (Motor Pool) remedial system has recovered approximately 187,500 pounds of hydrocarbons. During this operating time period a total of 3,450 lbs of hydrocarbons was recovered. Hydrocarbon recovery rates ranged from 22 lbs/day to 5 lbs/day when the system was operating. The average recovery rate was 11 lbs/day. This is a decrease in hydrocarbon recovery from the previous year. In 2004, a total of 4,500 lbs of hydrocarbons was recovered with hydrocarbon recovery rates ranging from 34 lbs/day to 6 lbs/day.

A descending trend in recovery rates from start-up to the present can be observed in the data. During 1999, a total of 92,500 lbs of hydrocarbons was recovered. The recovery rate decreased to 62,000 lbs recovered in 2000, 12,700 lbs recovered in 2001, 7,200 lbs recovered in 2002, 2,700 lbs/day recovered in 2003. In 2004 the vapor recovery rate increase to 4,500 lbs may have been a result of a biopulse pilot test, completed by CATLIN, that resulted in mobilization of free product (up to 14 feet of free product was observed in monitoring well HPFF-72) in the area. During 2005 the vapor recovery rate decreased to 3,450 lbs. This represents a decrease of 95% from initial system vapor recovery rates. A descending trend is typical of the operation of SVE systems. As adsorbed-phase petroleum compounds are removed from the unsaturated zone, recovered hydrocarbon vapor concentrations will decrease.

3.2.2 Field #2 Fuel Farm

Since system startup, the Field #2 (Fuel Farm) remedial system has recovered approximately 732,000 pounds of hydrocarbons. During this operating time period, a total of 41,700 lbs of hydrocarbons were recovered. Hydrocarbon recovery rates ranged from 400 lbs/day to 15 lbs/day when the system was operating. The average recovery rate was 131 lbs/day. This continues the increasing trend in hydrocarbon recovery that began in 2003. In 2003, a total of 13,000 pounds of hydrocarbons were recovered with hydrocarbon recovery rates ranging from 95 lbs/day to 15 lbs/day. In 2004, a total of 24,500 pounds of hydrocarbons were recovered with hydrocarbon recovery rates ranging from 114 lbs/day to 12 lbs/day.

From system startup to 2003 a descending trend in recovery rates had been observed in the data. During 1999, a total of 117,000 pounds of hydrocarbons was recovered. The recovery rate increased to 374,500 pounds recovered in 2000, decreased substantially to

75,400 pounds recovered in 2001, continued the decreasing trend to 47,700 lbs recovered in 2002, and 13,000 lbs recovered in 2003. As stated in the previous section, the increase during 2004 that continued through 2005 probably resulted from a combination of the SVE/AS system expansion and free product mobilization due to the bio-pulse pilot test (as evidenced by up to 14 feet of free product in monitoring well HPFF-72). Even with this increase the recovery rate has decreased approximately 90% from system vapor recovery rates observed during 2000.

3.2.3 Vapor Treatment System

A catalytic oxidation (CATOX) unit was installed at the southeast compound in January 2002 to treat hydrocarbon vapors recovered by the SVE system prior to discharge to the atmosphere. A vapor sample was collected from the influent into the Catox and an effluent sample was collected to evaluate the destruction efficiency of the Catox unit. The samples were collected February 21, 2002 using a summa canister and shipped to Severn Trent Laboratories, Inc. located in Pensacola, Florida for analysis. The vapor samples were analyzed for total petroleum hydrocarbons-gasoline range organics (TPH-GRO) using Method 8015M, volatile organic compounds using Method 8260B-ModAir, and methane, ethane and ethene using Method ASTM D1946.

The vapor analytical results indicated a greater than 90% reduction in TPH-GRO concentrations (589 mg/m^3 to <100 mg/m^3) was achieved by the CATOX unit. In addition, a reduction of BTEX concentrations ranged from approximately 90% for xylenes to greater than 99% for benzene.

3.3 AGGRESSIVE FLUID/VAPOR RECOVERY (AFVR)

In addition to routinely monitoring the AS/SVE system's operation, select monitoring wells that have displayed the presence of free-phase product have been monitored on a weekly basis for the presence of product. If free-phase product is observed in a well, an AFVR event is completed to remove the product from the well by vacuum lift using a vacuum recovery truck. An AFVR event consists of the removal of total fluids from an existing well that has demonstrated the presence of free-phase product. The total gallons of product recovered are calculated from liquid and vapor removal measurements of hydrocarbons from the well.

An estimated 2,000 gallons of free product was recovered during 2000 from these monitoring wells. During 2001 an estimated 1,387 gallons of free product was recovered. During 2002 an estimated 900 gallons of free product was recovered. During 2003 an

estimated 170 gallons of free product was recovered. During 2004 an estimated 790 gallons of free product was recovered. During this monitoring period an estimated 745 gallons of free product was recovered. The high product recovery observed in 2004 continued in 2005. This high product recovery was due to the persistent occurrence of product in monitoring well HPFF-72 (ranging from 1 to 15 feet thick) throughout the monitoring period. It appears that product was mobilized and flowed into the well during implementation of the bio-pulse pilot test. Prior to implementation of the bio-pulse pilot test, product had been detected in HPFF-72 only sporadically (i.e., only five times during 2003).

During this monitoring period, a total of 48 AFVR events were completed at the HPFF Fuel Farm area (Southeast Compound). Monitoring well HPFF-72 was the only well that required AFVR events. In comparison, during the 2004 monitoring period AFVR events were conducted at HPFF-15 (nine events, 100 gallons of product), HPGE32-3 (one event, 10 gallons of product), MW-2 (one event, 8 gallons of product) and HPFF-72 (43 events, 670 gallons of product). AFVR events have not been completed at MW-11, MW-12, MW-15 and HPFF-28 from September 1, 2003 through August 31, 2005. These monitoring wells had at least one AFVR event during 2002. These wells will continue to be monitored for product thickness. A summary table of the AFVR reports is provided in *Appendix A.*

3.4 FREE PRODUCT RECOVERY SYSTEM

Two free product recovery pumps (MW16R and RW5) have been in operation since September 1999 at the HPFF Southeast compound. The pump in recovery well RW4 was shutdown in September 2003 due to the absence of product observed in the well over a one year time period. During the 2005 monitoring period product was not observed in RW4 (the third year in a row). Product thickness ranged from a sheen to 1-foot in MW16R and from 0.05 feet up to 1.2 feet in RW5. An estimated 178 gallons of product was recovered from these wells during the 2005 monitoring period. This is an increase of 87 gallons of product recovered during the previous year (i.e., 91 gallons recovered).

During 2004 product thickness ranged from a sheen to 1.16 feet in MW16R and up to 1.61 feet in RW5 (product was not observed in RW4). During 2003 product thickness ranged from a sheen to 1.09 feet in MW16R and up to 0.97 feet in RW5 (product was not observed in RW4). During 2002, product thickness in these recovery wells ranged from a sheen to 0.8 feet in MW16R, 0.3 feet in RW4 and 0.5 feet in RW5. During 2001 product thickness ranged from 0.5 feet in MW16R, 0.2 feet in RW4 and 0.8 feet in RW5. During

2000, product thickness in these wells ranged from a sheen to 4.2 feet in MW16R, 2.5 feet in RW-4, and 2.0 feet in RW5. As much as 12.5 feet of product was measured in MW16R in 1999.

Product recovery ranged from a high of 33 gallons per month during August 2005 to 3 gallons during December 2004. This is an increase from the previous year's high of 18 gallons recovered in April 2004. It appears that the increase of product recovered and thicknesses from the past two years may be due to the implementation of the bio-pulse pilot test. The product recovery system continues to be successful in reducing the volume of free phase product in the vicinity of the recovery wells.

4.0 GROUNDWATER MONITORING RESULTS

4.1 GROUNDWATER ELEVATION MEASUREMENTS

4.1.1 Building 1115 Area (Northwest Compound)

Groundwater level measurements at the HPFF Building 1115 Northwest compound were collected from 14 monitoring wells in March and 16 monitoring wells in August 2005. Measurements were recorded from 6 "shallow" (less than 50 feet deep) monitoring wells (1115-1, 1115-2, 1115-4, 78GW22-2, 1115GT-1, and 1115GT-9) for March and August 2005; four "intermediate" (screened from 50 to 70 feet bls) monitoring wells (1115-13, 1115-17, 1115-18, and 1115-21) for March 2005 and six monitoring wells (1115-13, 1115-14, 1115-15, 1115-17, 1115-18, and 1115-21) for August 2005; and four "deep" (greater than 70 feet deep) monitoring wells (1115-22, 1115-23, 1115-24, and 1115-25) for March and August 2005. Groundwater level measurements are presented in *Table 4.1.*

The groundwater measurement results from the March 2005 gauging event are summarized below:

- Depth to groundwater in the "shallow" wells ranged from 4.24 feet bls in UST1115GT-MW01 to 9.01 feet bls in UST1115-MW01. Groundwater elevations ranged from 17.1 feet National Geodetic Vertical Datum (NGVD) in UST1115-MW02 to 22.76 feet NGVD in UST1115-MW04.

- Depth to groundwater in the "intermediate" wells ranged from 9.04 feet bls in UST1115-MW13 to 10.1 feet bls in UST1115-MW17. Groundwater elevations ranged from 16.09 feet NGVD in UST1115-MW17 to 17.53 feet NGVD in UST1115-MW18.

- Depth to groundwater in the "deep" wells ranged from 9.77 feet bls in UST1115-MW25 to 11.66 feet bls in UST1115-MW22. Groundwater elevations ranged from 15.76 feet NGVD in UST1115-MW24 to 17.08 feet NGVD in UST1115-MW23.

Figure 4.1 presents groundwater elevations in March 2005 in the "shallow," "intermediate," and "deep" monitoring wells at the Building 1115 area. Differences in elevations from the different depth intervals indicate a significant downward vertical

hydraulic gradient at the site. This downward gradient is probably responsible for the dissolved COCs detected in the monitoring wells that are screened at the deeper depth intervals.

The groundwater measurement results from the August 2005 gauging event are summarized below:

- Depth to groundwater in the "shallow" wells ranged from 3.48 feet bls in UST1115-MW04 to 9.12 feet bls in UST1115GT-MW01. Groundwater elevations ranged from 17.46 feet NGVD in UST1115-MW02 to 23.83 feet NGVD in UST1115-MW04.

- Depth to groundwater in the "intermediate" wells ranged from 6.54 feet bls in UST1115-MW13 to 11.09 feet bls in UST1115-MW14. Groundwater elevations ranged from 16.19 feet NGVD in UST1115-MW17 to 19.36 feet NGVD in UST1115-MW13.

- Depth to groundwater in the "deep" wells ranged from 9.73 feet bls in UST1115-MW25 to 11.79 feet bls in UST1115-MW22. Groundwater elevations ranged from 15.68 feet NGVD in UST1115-MW24 to 17.02 feet NGVD in UST1115-MW23.

Figure 4.2 presents groundwater elevations in August 2005 in the "shallow," "intermediate," and "deep" monitoring wells at the Building 1115 area. Differences in elevations from the different depth intervals indicate a significant downward vertical hydraulic gradient at the site. This downward gradient is probably responsible for the dissolved COCs detected in the monitoring wells that are screened at the deeper depth intervals.

4.1.2 HPFF Fuel Farm Area (Southeast Compound)

Groundwater level measurements at the HPFF Fuel Farm Area Southeast compound were collected from 23 monitoring wells in March and 19 monitoring wells in August 2005. Measurements were recorded from 16 "shallow" monitoring wells (USTHPFFC-MW01, USTHPFFC-MW05, USTHPFFC-MW14, USTHPFFC-MW19, USTHPFFC-MW20, USTHPFFC-MW24, USTHPFFC-MW28, USTHPFFC-MW30, USTHPFFC-MW42, USTHPFF-MW01, USTHPFF-MW06, USTHPFF-MW10R, USTHPFF-MW-11, USTHPFF-MW17A, USTHPFF-MW18, and USTHPFF-MW19) for March 2005 and all

of these wells except USTHPFFC-MW19 in August 2005, three "intermediate" monitoring wells (USTHPFFC-MW07, USTHPFFC-MW08, and USTHPFFC-MW09) for March and August 2005, and four "deep" monitoring wells (IR78GW32-2, IR78GW32-3, USTHPFFC-MW10, and USTHPFFC-MW11) in March 2005 and only USTHPFFC-MW10 in August 2005.

Groundwater level measurements are presented in *Table 4.2*. The groundwater measurement results from the March 2005 gauging event are summarized below:

- Depth to groundwater in the "shallow" wells ranged from 4.87 feet bls in USTHPFFC-MW30 to 12.54 feet bls in USTHPFF-MW10R. Groundwater elevations ranged from 20.09 feet NGVD in USTHPFFC-MW24 to 23.13 feet NGVD in USTHPFFC-MW01.

Depth to groundwater in the "intermediate" wells ranged from 8.82 feet bls in USTHPFFC-MW09 to 15.55 feet bls in USTHPFFC-MW08. Groundwater elevations ranged from 18.31 feet NGVD in USTHPFFC-MW09 to 19.35 feet NGVD in USTHPFFC-MW08.

- Depth to groundwater in the "deep" wells ranged from 8.54 feet bls in IR-78GW32-3 to 13.9 feet bls in USTHPFFC-MW10. Groundwater elevations ranged from 17.75 feet NGVD in IR-78GW32-2 to 19.26 feet NGVD in IR-78GW32-3.

Figure 4.3 presents groundwater elevations in March 2005 in the "shallow," "intermediate," and "deep" monitoring wells at the Fuel Farm area.

The groundwater measurement results from the August 2005 gauging event are summarized below:

- Depth to groundwater in the "shallow" wells ranged from 4.29 feet bls in USTHPFFC-MW01 to 12.47 feet bls in USTHPFF-MW10R. Groundwater elevations ranged from 20.25 feet NGVD in USTHPFFC-MW17A to 24.17 feet NGVD in USTHPFFC-MW01.

- Depth to groundwater in the "intermediate" wells ranged from 8.62 feet bls in USTHPFFC-MW09 to 15.41 feet bls in USTHPFFC-MW08. Groundwater

elevations ranged from 18.51 feet NGVD in USTHPFFC-MW09 to 19.49 feet NGVD in USTHPFFC-MW08.

- Field notes of depth to groundwater measurements were only available for one "deep" well (USTHPFFC-MW10) in August 2005. Depth to groundwater and groundwater elevation in USTHPFFC-MW10 were 13.79 feet bls and 18.71 feet NGVD respectively.

Figure 4.4 presents groundwater elevations in the "shallow," "intermediate," and "deep" monitoring wells respectively at the Fuel Farm Southeast Compound area.

4.2 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS

4.2.1 Building 1115 Area (Northwest Compound)

Groundwater sample collection and analysis was completed in March and August 2005. The samples were analyzed for Volatile Organic Analysis (VOAs) using Method 602 and polynuclear aromatic hydrocarbons (PAHs) using Method 610. In March 2005, a total of seven "shallow" wells (UST1115-MW01, UST1115-MW02, UST1115-MW04, IR78GW22-2, UST1115GT-MW01, UST1115GT-MW07 and UST1115GT-MW09), four "intermediate" wells (UST1115-MW13, UST1115-MW17, UST1115-MW18, and UST1115-MW21) and four "deep" wells (UST1115-MW22, UST1115-MW23, UST1115-MW24, and UST1115-MW25) were sampled. All but one monitoring well (UST1115GT-MW09) sampled displayed COCs of at least one contaminant in excess of North Carolina's Groundwater Quality Standards (NCGQS) during the March 2005 sampling event. Analytical results from the March 2005 sampling event indicated concentrations of COCs above NCGQS in six of the seven shallow monitoring wells ranging from UST1115-MW01 (3.8 µg/L, benzene) to IR78GW22-2 (78.5 µg/L, benzene). All four intermediate monitoring wells exceeded NCGQS concentrations ranging from UST1115-MW18 (9.6 µg/L, benzene) to UST1115-MW21 (338 µg/L, benzene). All four deep monitoring wells exceeded NCGQS concentrations ranging from UST1115-MW24 (1,030 µg/L, benzene) to UST1115-MW25 (5,170 µg/L, benzene). Only one monitoring well UST1115-MW-13 exceeded the naphthalene NCGQS concentration at 129.0 µg/L.

Groundwater analytical results of the COCs for the March 2005 sampling event are presented in *Table 4.3*. Historical groundwater analytical results are provided in *Appendix B*. Groundwater analytical results for all monitoring wells (shallow,

intermediate, and deep) are presented on *Figure 4.7.* The complete laboratory analytical reports showing all detections are provided in *Appendix C.* The groundwater sample collection field logs are provided in *Appendix D.*

The second semi-annual sampling event was completed in August 2005. A total of 14 monitoring wells were sampled during this event. The samples were analyzed for VOAs using Method 602 and PAHs using Method 610. All but three of the 14 monitoring wells sampled displayed at least one COCs in excess of NCGQS during the August 2005 sampling event. Analytical results from the sampling event indicated concentrations of COCs above NCGQS in three of seven shallow monitoring wells ranging from IR78GW22-2 (4.7 µg/L, benzene) to UST1115GT-MW01 (268 µg/L, benzene). All three intermediate monitoring wells exceeded NCGQS concentrations ranging from UST1115-MW17 (9.5 µg/L, benzene) toUST1115-MW21 (282 µg/L, benzene). All four deep monitoring wells exceeded NCGQS concentrations ranging from UST1115-MW24 (3,120 µg/L, benzene) to UST1115-MW23 (5,240 µg/L, benzene). Only one monitoring well UST1115-MW-13 exceeded the naphthalene NCGQS concentration at 108.0 µg/L.

Groundwater analytical results of the COCs for the August 2005 sampling event are presented in *Table 4.4.* Historical groundwater analytical results are provided in *Appendix B.* Groundwater analytical results for all monitoring wells (shallow, intermediate, and deep) are presented on *Figure 4.7.* The complete laboratory analytical reports showing all detections are provided in *Appendix C.* The groundwater sample collection field logs are provided in *Appendix D.* Hydrographs compared with analytical results from select monitoring wells that have displayed COCs in excess of NCGQS are provided in *Appendix F.*

4.2.2 HPFF Fuel Farm Area (Southeast Compound)

Groundwater sample collection and analysis was completed in April and August 2005. The samples were analyzed for VOAs using Method 602 and PAHs using Method 610. In April 2005 a total of 9 "shallow" wells (USTHPFFC-MW01, USTHPFFC-MW05, USTHPFFC-MW19, USTHPFFC-MW20, USTHPFF-MW01, USTHPFF-MW10R, USTHPFF-MW11, USTHPFF-MW17A, and USTHPFF-MW18), three "intermediate" wells (USTHPFFC-MW07, USTHPFFC-MW08, and USTHPFFC-MW09) and three "deep" wells (USTHPFFC-MW11, IR78-GW32-02 and IR78-GW32-03) were sampled.

Of the 15 monitoring wells sampled in April 2005, 10 displayed at least one of the COCs in excess of NCGQS. Analytical results from the April 2005 groundwater sampling

event detected concentrations of COCs above benzene NCGQS in seven of nine shallow monitoring wells where wells exceeded the benzene NCGQS ranging from USTHPFF-MW11 (5.2 µg/L) to USTHPFF-MW18 (12,800 µg/L). Detected concentrations of COCs above ethylbenzene NCGQS were detected in five of nine shallow monitoring wells where wells exceeded the ethylbenzene NCGQS ranging from USTHPFF-MW19 (858 µg/L) to USTHPFF-MW01 (3,670 µg/L). Detected concentrations of COCs above toluene NCGQS were detected in five of nine shallow monitoring wells where wells exceeded the toluene NCGQS ranging from USTHPFF-MW19 (8,230 µg/L) to USTHPFF-MW18 (27,800 µg/L). Detected concentrations of COCs above xylenes NCGQS were detected in five of nine shallow monitoring wells where wells exceeded the xylenes NCGQS ranging from USTHPFF-MW19 (4,350 µg/L) to USTHPFF-MW01 (15,300 µg/L). Detected concentrations of COCs above naphthalene NCGQS were detected in six of nine shallow monitoring wells where wells exceeded the naphthalene NCGQS ranging from USTHPFF-MW10R (34.5 µg/L) to USTHPFF-MW18 (562 µg/L).

Analytical results from the April 2005 groundwater sampling event detected concentrations of COCs above NCGQS in one of three intermediate monitoring wells where monitoring well USTHPFFC-MW08 exceeded the following concentrations: (10,600 µg/L, benzene; 859 µg/L, ethylbenzene; 1,680 µg/L, toluene; 2,750 µg/L, total xylenes; and 165 µg/L, naphthalene).

Analytical results from the April 2005 groundwater sampling event detected concentrations of COCs above NCGQS in two of three deep monitoring wells where wells exceeded the benzene NCGQS ranging from IR78-GW32-3 (8.2 µg/L) to IR78-GW32-2 (604 µg/L).

Groundwater analytical results of the COCs for the April 2005 sampling event are presented in *Table 4.5.* Groundwater analytical results for all monitoring wells (shallow, intermediate, and deep) are presented on *Figure 4.8.* Historical groundwater analytical results are provided in *Appendix B.* The groundwater sample collection field logs are provided in *Appendix D.* The complete laboratory analytical reports showing all detections are provided in *Appendix E.* Hydrographs compared with analytical results from select monitoring wells that have displayed COCs in excess of NCGQS are provided in *Appendix F.*

In August 2005 a total of eight "shallow" wells (USTHPFFC-MW01, USTHPFFC-MW05, USTHPFFC-MW20, USTHPFF-MW01, USTHPFF-MW10R, USTHPFF-

MW11, USTHPFF-MW17A, and USTHPFF-MW18), three "intermediate" wells (USTHPFFC-MW07, USTHPFFC-MW08 and USTHPFFC-MW09) and two "deep" wells (USTHPFFC-MW10, and USTHPFFC-MW11) were sampled.

Eight of the 13 monitoring wells sampled in August 2005 displayed at least one of the COCs in excess of NCGQS. Analytical results from the August 2005 groundwater sampling event detected concentrations of COCs above benzene NCGQS in six of eight shallow monitoring wells where wells exceeded the benzene NCGQS ranging from USTHPFF-MW11 (44.7 µg/L) to USTHPFF-MW18 (12,300 µg/L). Detected concentrations of COCs above ethylbenzene NCGQS were detected in three of eight shallow monitoring wells where wells exceeded the ethylbenzene NCGQS ranging from USTHPFF-MW18 (1,680 µg/L) to USTHPFF-MW01 (3,850 µg/L). Detected concentrations of COCs above toluene NCGQS were detected in three of eight shallow monitoring wells where wells exceeded the toluene NCGQS ranging from USTHPFF-MW01 (24,400 µg/L) to USTHPFF-MW18 (28,400 µg/L). Detected concentrations of COCs above xylenes NCGQS were detected in five of eight shallow monitoring wells where wells exceeded the xylenes NCGQS ranging from USTHPFF-MW10R (1,510 µg/L) to USTHPFF-MW01 (17,200 µg/L). Detected concentrations of COCs above naphthalene NCGQS were detected in five of eight shallow monitoring wells where wells exceeded the naphthalene NCGQS ranging from USTHPFF-MW10R (53.6 µg/L) to USTHPFF-MW01 (542 µg/L).

Analytical results from the August 2005 groundwater sampling event detected concentrations of COCs above NCGQS in one of three intermediate monitoring wells where monitoring well USTHPFFC-MW08 exceeded the following concentrations: (7,710 µg/L, benzene; 801 µg/L, total xylenes; and 80.9 µg/L, naphthalene).

Analytical results from the August 2005 groundwater sampling event detected concentrations of COCs above NCGQS in one of two deep monitoring wells where monitoring well USTHPFFC-MW11 exceeded the following concentrations: (1.3 µg/L, benzene).

Groundwater analytical results of the contaminants of concern for the August 2005 sampling event are presented in *Table 4.6.* Groundwater analytical results for all monitoring wells (shallow, intermediate, and deep) are presented on *Figure 4.8.* Historical groundwater analytical results are provided in *Appendix B.* The groundwater sample collection field logs are provided in *Appendix D.* The complete laboratory

analytical reports showing all detections are provided in *Appendix E.* Hydrographs compared with analytical results from select monitoring wells that have displayed COCs in excess of NCGQS are provided in *Appendix F.*

5.0 CONCLUSIONS

5.1 AFVR EVENTS

During the reporting period from September 2004 through August 2005, a total of 48 AFVR events were completed at the HPFF Fuel Farm area (Southeast Compound), recovering an estimated 745 gallons of free product. This is essentially the same as the 790 gallons of product recovered during the previous year. During this monitoring period, AFVR events were conducted at only one monitoring well USTHPFFC-MW72.

With the exception of HPFF-72, AFVR events have reduced the product thickness to less than 1-foot in wells that have historically displayed free product. The AFVR events continue to be effective in removing free phase product from the subsurface.

5.2 GROUNDWATER ELEVATION MEASUREMENTS

5.2.1 Building 1115 Area (Northwest Compound)

Differences in elevations from the different depth intervals indicate a significant downward vertical hydraulic gradient at the site (*Figures 4.1 and 4.2)*. This downward gradient is probably responsible for the dissolved COCs detected in the monitoring wells that are screened at the deeper depth intervals.

Figures 4.5A and *4.6A* present groundwater elevation contour maps for March and August 2005 respectively produced from groundwater elevations from the shallow monitoring wells. During both groundwater sampling events the groundwater flow direction appears to be to the south-southwest with a hydraulic gradient of approximately 0.006 ft/ft.

Figures 4.5B and *4.6B* present groundwater elevation contour maps for March and August 2005 respectively produced from groundwater elevations from the intermediate monitoring wells. The groundwater flow direction appears to be to the west with a hydraulic gradient of 0.002 ft/ft.

Figures 4.5C and *4.6C* present groundwater elevation contour maps for March and August 2005 respectively produced from groundwater elevations from the deep monitoring wells. The groundwater flow direction appears to be predominantly to the west with a hydraulic gradient of 0.003 ft/ft.

In general, groundwater elevations observed during 2005 were one to two feet lower than elevations observed during 2004.

5.2.2 HPFF Fuel Farm Area (Southeast Compound)

As observed at the northwest compound, differences in elevations from the different depth intervals indicate a significant downward vertical hydraulic gradient at the site (*Figures 4.3 and 4.4)*. This downward gradient is probably responsible for the dissolved COCs detected in the monitoring wells that are screened at the deeper depth intervals.

Figures 4.5A and *4.6A* present groundwater elevation contour maps for March and August 2005 respectively produced from groundwater elevations from the shallow monitoring wells. The groundwater flow direction appears to be to the south-southwest with a hydraulic gradient of 0.002 ft/ft.

Figures 4.5B and *4.6B* present groundwater elevation contour maps for March and August 2005 respectively produced from groundwater elevations from the intermediate monitoring wells. The groundwater flow direction appears to be to the west with a hydraulic gradient of 0.002 ft/ft.

Figures 4.5C and *4.6C* present groundwater elevation contour maps for March and August 2005 respectively produced from groundwater elevations from the deep monitoring wells. The groundwater flow direction appears to be to the west with a hydraulic gradient of 0.002 ft/ft.

In general, groundwater elevations observed during 2005 were one to two feet lower than elevations observed during 2004.

5.3 GROUNDWATER ANALYTICAL RESULTS

5.3.1 Building 1115 Area (Northwest Compound)

5.3.1.1 Shallow Monitoring Wells

Shallow monitoring wells UST1115GT-MW01, IR78GW22-2, UST1115-MW01, UST1115-MW02, and UST1115-MW04 have been sampled semiannually since January 1999. To better define the horizontal extent of contamination on the north and east area of the site, monitoring wells UST1115GT-MW07 and UST1115GT-MW09 were added

during the August 2002 sampling event. Of the seven monitoring wells sampled, all but one monitoring well (UST1115GT-MW09) detected COCs at concentrations above the NCGQS during the March 2005 sampling event. During the August 2005 sampling event four monitoring wells (UST1115GT-MW09, UST1115-MW01, UST1115-MW02 and UST1115-MW04) did not display COCs above the NCGQS.

Concentrations of COCs decreased to below NCGQS in the above mentioned monitoring wells during this monitoring period. Only monitoring well UST1115GT-MW01 demonstrated a significant increase in the benzene concentration during the August sampling event. *Figure 4.7* presents groundwater analytical results from the last four monitoring events dating back to February 2004. Groundwater analytical results for this monitoring period are presented in *Tables 4.3* and *4.4*. Historical groundwater analytical results are provided in *Appendix B*.

5.3.1.2 Intermediate Monitoring Wells

Intermediate monitoring wells UST1115-MW13, UST1115-MW17, UST1115-MW18, and UST1115-MW21, have been sampled semiannually since January 1999. All four of these monitoring wells have consistently displayed dissolved COC concentrations above NCGQS over this period. Dissolved benzene concentrations continue to persist in all four wells at relatively high concentrations, and naphthalene concentrations continue to persist at relatively high concentrations in monitoring well UST1115-MW13, however, this monitoring well continues to demonstrate a decreasing trend in contaminant concentrations.

As dissolved contaminants in the shallow monitoring wells continue to decrease, a reduction in dissolved contaminant concentrations in the intermediate wells is expected to begin occurring at an accelerated rate. *Figure 4.7* presents groundwater analytical results from the last four monitoring events dating back to February 2004. Groundwater analytical results for this monitoring period are presented in *Tables 4.3* and *4.4*. Historical groundwater analytical results are provided in *Appendix B*.

5.3.1.3 Deep Monitoring Wells

Deep monitoring wells UST1115-MW22, UST1115-MW23, UST1115-MW24, and UST1115-MW25 have been sampled semiannually since January 1999. These monitoring wells continue to demonstrate relatively high COC concentrations. Monitoring wells UST1115-MW22, UST1115-MW23 and UST1115-MW25 continue to show an increasing contaminant concentration trend over the last two years. *Figure 4.7*

presents groundwater analytical results from the last four monitoring events dating back to February 2004. Groundwater analytical results for 2005 are presented in *Tables 4.3* and *4.4*. Historical groundwater analytical results are provided in *Appendix B*.

5.3.1.4 Groundwater Analytical Results Summary

It appears that free-phase product has been removed from the groundwater surface in this area of the site. This is evidenced by the absence of AFVR events dating back to 2000 and the decreasing trend of dissolved COCs in the "shallow" (less than 50 feet bls) surficial aquifer. However, the significant downward vertical hydraulic gradient observed at the site appears to be transporting dissolved COCs into the deeper groundwater zones. The vertical extent of dissolved COC compounds has not been delineated at the site. *Figure 5.1* presents the estimated extent of dissolved benzene in the "shallow" zone in August 2005 at the northwest compound. *Figure 5.2* presents the estimated extent of dissolved benzene in the "shallow" zone in August 2004 at the northwest compound. For comparison purposes *Figures 5.3, 5.4, 5.5, 5.6* and 5.7 present the estimated extent of dissolved benzene in August 2003, July 2002, July 2001, July 2000, and July 1999 respectively.

The "intermediate" (50 to 70 feet bls) and "deep" zones continue to display the highest dissolved concentrations of COCs. This indicates that natural attenuation and the AS/SVE system are operating as expected to reduce contaminant levels in the shallow aquifer at the site. However, natural attenuation appears to be occurring at a much slower rate at depths greater than 50 feet bls. As concentrations of COCs in the "shallow" zone continue to decrease, the deeper zones should begin to demonstrate a similar trend. Implementation of the bio-pulse remediation system recommended in the Revised Corrective Action Plan began in January 2006. The system was designed to inject air into the subsurface at a depth of 130 to 150 feet bls that will increase the dissolved oxygen (DO) concentration in the deep aquifer zone. The increased DO concentration is expected to stimulate microbial activity leading to increased degradation of the deep contaminant plume. Another year of groundwater monitoring should be completed to provide information to determine if a decreasing trend develops.

5.3.2 HPFF Fuel Farm Area (Southeast Compound)

5.3.2.1 Shallow Monitoring Wells

Shallow monitoring wells USTHPFF-MW01, USTHPFF-MW10R, USTHPFF-MW11, USTHPFF-MW17A, USTHPFF-MW18, USTHPFFC-MW01, USTHPFFC-MW19, and

USTHPFFC-MW20 have been sampled semiannually since January 1999. Monitoring well USTHPFFC-MW05 was sampled for the first time in August 2002 to better define the horizontal extent of contamination at the western plume boundary. Analytical results from USTHPFFC-MW05 were below NCGQS for all compounds during the August 2002 sampling event. However, benzene was detected at concentrations above the NCGQS during both sampling events completed in 2003 (674 µg/L, February 2003; and 44.2 µg/L, August 2003). Benzene concentrations decreased substantially during both sampling events in 2004 (8.4 µg/L, February 2004; and 4.1 µg/L, August 2004) but continued to exceed the NCGQS of 1.0 µg/L. During 2005 this decreasing trend continued with concentrations of COCs decreasing to below NCGQS in both the April and August sampling events.

Concentrations of COCs in most of the monitoring wells continue to fluctuate slightly, but in general, have not decreased significantly since the remedial system was placed in operation. The concentrations remain very high compared to the NCGQS. *Figure 4.8* presents groundwater analytical results from the last four monitoring events dating back to February 2004. Groundwater analytical results for 2005 are presented in *Tables 4.5* and *4.6*. Historical groundwater analytical results are provided in *Appendix B*.

5.3.2.2 Intermediate Monitoring Wells

Intermediate monitoring wells USTHPFFC-M07 and USTHPFFC-MW08 have been sampled semiannually since January 1999. Of these monitoring wells, the benzene concentration in USTHPFFC-MW07 has decreased from 79 µg/L (January 1999) to <1 µg/L (April 2005 and August 2005). The monitoring well appears to be on the northern fringe of the dissolved contaminant plume in the intermediate zone. Monitoring well USTHPFFC-MW08 continues to display BTEX concentrations well above the NCGQS. Monitoring well USTHPFFC-MW09 was sampled for the first time in August 2002 to evaluate contamination at the intermediate depth on the western portion of the site. Since then BTEX concentrations consistently decreased from a high of 12,581 µg/L (total BTEX) to less than 1 µg/L (total BTEX) during the August 2004 groundwater sampling event. BTEX concentrations remained below NCGWQS during the April and August 2005 groundwater sampling events. This monitoring well will continue to be monitored to see if this trend will continue.

Figure 4.8 presents groundwater analytical results from the last four monitoring events dating back to February 2004. Groundwater analytical results for 2005 are presented in *Tables 4.5* and *4.6*. Historical groundwater analytical results are provided in *Appendix B*.

5.3.2.3 Deep Monitoring Wells

Deep monitoring wells IR78-GW32-2 (screened 64-74 feet bls) and IR78-GW32-3 (screened 140-150 feet bls) have been sampled semiannually since January 1999. Both monitoring wells continue to display benzene at concentrations above the NCGQS. Monitoring well IR78-GW32-3 appears to be on the vertical fringe of the dissolved contaminant plume. Monitoring well USTHPFFC-MW11 (screened 105-110 feet bls) was sampled for the first time in August 2002 to evaluate the vertical extent of contamination in the central portion of the site. Initial analytical results detected benzene (809 µg/L) and ethylbenzene (52.1 µg/L) at concentrations above the NCGQS. Since then only benzene has been detected in groundwater samples at concentrations above the NCGWQS. The benzene concentration has demonstrated a consistent decrease from 809 µg/L (August 2002) to 1.3 µg/L (August 2005).

Figure 4.8 presents groundwater analytical results from the last four monitoring events dating back to February 2004. Groundwater analytical results for 2005 are presented in *Tables 4.5* and *4.6*. Historical groundwater analytical results are provided in *Appendix B*.

5.3.2.4 Groundwater Analytical Results Summary

Free-phase product continues to persist on the groundwater surface in isolated areas of the site. Free product was detected in monitoring wells USTHPFFC-MW02, USTHPFF-MW15 and USTHPFFC-MW72 and recovery wells RW5 and MW16R during this monitoring period. When free product is detected in a monitoring well in excess of 0.5 feet an AFVR event is performed at that monitoring well. The number of AFVR events performed at a particular well throughout the year is a good indicator of the volume of product remaining in the vicinity of a monitoring well (i.e., fewer numbers of AFVR events means longer product recharge time, indicating less free product in the area of the well). Free product was not observed in USTHPFF-MW18 and USTHPFF-MW12 during this monitoring period. Continued AFVR events and operation of the remedial system will remove measurable product from these wells in the next year.

AFVR events in select wells have reduced free product in the wells from greater than 8 feet (USTHPFF-MW15 in 1999) to less than 1 foot in all wells (with the exception of HPFF-72, which continues to display product thickness in excess of 10 feet since implementation of the bio-pulse pilot test), with a majority of the wells displaying less than 0.5 feet of product. High concentrations of dissolved-phase COCs will continue to persist in the shallow groundwater until the free-phase product has been removed. AFVR events will continue to be performed on monitoring wells displaying the presence of free-

phase product. The significant downward vertical hydraulic gradient observed at the site appears to be transporting dissolved COCs into the deeper groundwater zones. *Figure 5.1* presents the estimated extent of dissolved benzene and free product in the "shallow" zone in August 2005 at the HPFF. For comparison purposes, *Figures 5.2, 5.3, 5.4, 5.5 5.6* and *5.7* present the estimated extent of dissolved benzene and free product in 2004, 2003, 2002, 2001, 2000 and 1999, respectively.

The "intermediate" (50 to 70 feet bls) zone continues to display high dissolved concentrations of COCs. While concentrations continue to exceed NCGQS in the "deep" (greater than 70 feet bls) zone, a decreasing trend has developed. As the AS/SVE remedial system continues to reduce contaminant concentrations in the upper portion of the aquifer, natural attenuation is expected to reduce COCs concentrations to below NCGQS in the "deep" zone. Therefore, additional "deep" monitoring wells are not required to delineate the vertical extent of dissolved contaminants at the site at this time.

6.0 RECOMMENDATIONS

CATLIN completed additional contamination assessment work as well as a remedial technology evaluation at both the Building 1115 (northwest compound) and Hadnot Point Fuel Farm (southeast compound) during 2002 and 2003. This work involved monitoring well installation and groundwater sample collection to more fully characterize the contaminant plume (both horizontal and vertical) and hydrogeologic conditions at the site. In addition, a Bio-Pulse Sparging pilot test and a long term groundwater pumping test were completed. Results of this additional assessment work were used to develop a Revised CAP designed to remediate the deep contamination observed at the site.

The selected remedial technology presented in the *Revised Corrective Action Plan (CAP) for Hadnot Point Fuel Farm*, prepared by CATLIN (dated June 2003) recommended continued AFVR events to recover free phase product from monitoring wells, continued operation of the AS/SVE system for groundwater treatment (10 to 50 feet bls) and hydrocarbon vapor control, implementation of the Bio-Pulse Sparge system presented in the RCAP to treat groundwater to depths of 150 feet bls and groundwater recovery (30 gpm from well USTHPFFC-MW75) to ensure hydraulic control at the site.

In addition, based on discussions between the Navy and the NCDENR, the Navy has agreed to implement the above discussed remedial design during fiscal year 2006.

6.1 BUILDING 1115 AREA (NORTHWEST COMPOUND)

Natural attenuation and the remedial system appear to be operating as expected to reduce contaminant levels in the shallow aquifer at the site. However, natural attenuation appears to be occurring at a much slower rate at depths greater than 50 feet bls. When the air sparge portion of the remedial system was brought back on line in March 2004, select monitoring wells were tested to determine if air sparging does, in fact, increase the dissolved oxygen concentration in groundwater in the shallow, intermediate and deep zones. Results of this testing demonstrated an increase in dissolved oxygen concentrations in shallow, intermediate and deep monitoring wells following startup of the air sparging system.

As concentrations of COCs in the "shallow" zone continue to decrease, the deeper zones should begin to demonstrate a similar trend. To assist in the evaluation of natural attenuation processes, groundwater samples should be analyzed for the following natural attenuation parameters in select monitoring wells:

- Field Screened: temperature, conductivity, turbidity, pH, dissolved oxygen, and oxidation-reduction parameters (ORP)
- Method RSK-175: ethane, ethene and methane
- Method 354.1: nitrite, nitrogen
- Method 353.2: nitrite-nitrate, nitrogen and nitrate, nitrogen
- Method 375.4: sulfate
- Method 415.1: total organic carbon (TOC)

The following sampling schedule should be implemented during the 2006 semi-annual monitoring events scheduled for January and August 2006:

- Type II monitoring wells: Seven monitoring wells (UST1115-MW01, UST1115-MW02, UST1115-MW04, USTGT-MW01, USTGT-MW07, USTGT-MW099 and IR78-GW22-2) will be sampled. The samples will be analyzed for VOAs using EPA Method 602, PAHs using EPA Method 610, and the above-listed natural attenuation parameters.
- Type III "intermediate" monitoring wells: Four monitoring wells (UST1115-MW13, UST1115-MW17, UST1115-MW18, and UST1115-MW21) will be sampled. The samples will be analyzed for VOAs using EPA Method 602, for PAHs using EPA Method 610, and for natural attenuation parameters.
- Type III "deep" monitoring wells: Four monitoring wells (UST1115-MW22, UST1115-MW23, UST1115-MW24, and UST1115-MW25 will be sampled. The samples will be analyzed for VOAs using EPA Method 602,PAHs using EPA Method 610, and the natural attenuation parameters.

A depth to groundwater/product survey will be completed at select monitoring wells at the site on a semi-annual schedule. The survey will be completed just prior to each semi-annual sampling event. Results of this survey will provide a comprehensive groundwater elevation contour map of the site, as well as the current extent of free phase product.

Analytical results from the January and August 2006 sampling events will be reviewed and recommendations for future remedial work at the site will be developed as appropriate. *Table 6.1* presents the monitoring wells to be sampled and analytical parameters for each semi-annual sampling event.

6.2 HPFF FUEL FARM AREA (SOUTHEAST COMPOUND)

Continue AFVR events at select monitoring wells that demonstrate the presence of free-phase product as needed. At a minimum, the following monitoring wells will be gauged weekly for the presence of free-phase product: USTHPFFC-MW15, USTHPFFC-MW72, USTHPFF-MW12, USTHPFF-MW02, USTHPFF-MW15, and USTHPFF-MW18.

Natural attenuation processes may be equally as effective as observed at the Northwest Compound, however, due to the persistence of free-phase product at the site that will continually contribute to the dissolved phase concentrations, a net reduction in concentration is not occurring. High dissolved BTEX concentrations will continue to persist, particularly in the vicinity of free phase product. Once free product has been removed from the subsurface, a similar trend as that observed in the northwest compound should develop.

To assist in the evaluation of natural attenuation processes, the following natural attenuation parameters should be analyzed for in select monitoring wells:

- Field Screened: temperature, conductivity, turbidity, pH, dissolved oxygen, chloride, ORP and Iron II
- Method RSK-175: ethane, ethene and methane
- Method 354.1: nitrite, nitrogen
- Method 353.2: nitrite-nitrate, nitrogen and nitrate, nitrogen
- Method 375.4: sulfate
- Method 415.1: TOC

To better define the horizontal and vertical extent of the dissolved contaminant plume the same sampling schedule will be followed during the 2006 semi-annual monitoring events scheduled for January and August 2006:

- Type II monitoring wells: Nine monitoring wells (USTHPFF-MW01, USTHPFF-MW10R, USTHPFF-MW-11, USTHPFF-MW17A, USTHPFF-MW18, USTHPFFC-MW01, USTHPFFC-MW05, USTHPFFC-MW19, and USTHPFFC-MW20) will be sampled. The samples will be analyzed for VOAs using EPA Method 602, PAHs using EPA Method 610 and the above listed natural attenuation parameters.
- Type III "intermediate" monitoring wells: Three monitoring wells (USTHPFFC-MW07, USTHPFFC-MW08 and USTHPFFC-MW09) will be sampled. The samples

will be analyzed for VOAs using EPA Method 602, for PAHs using EPA Method 610, and for natural attenuation parameters.

- Type III "deep" monitoring wells: Three monitoring wells (IR78GW32-2, IR78GW32-3 and USTHPFFC-MW11) will be sampled. The samples will be analyzed for VOAs using EPA Method 602, for PAHs using EPA Method 610 and for natural attenuation parameters.

A depth to groundwater/product survey will be completed at select monitoring wells at the site on a semiannual schedule. The survey will be completed just prior to each semiannual sampling event. Results of this survey will provide a comprehensive groundwater elevation contour map of the site, as well as the current extent of free-phase product.

Analytical results from the January and August 2006 sampling events will be reviewed and recommendations for future remedial work at the site will be developed as appropriate. *Table 6.2* presents the monitoring wells to be sampled and analytical parameters for each semi-annual sampling event.

7.0 REFERENCES

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TABLES

TABLE 2.1*
MCB CAMP LEJEUNE
Site Rehabilitation Goals

MEDIUM	COMPONENTS	2004 CONDITIONS	2005 CONDITIONS	TARGET CLEANUP
Free Product	Gasoline/Diesel	Free product up to 1.16' (16R), 1.61' (RW5), and 16' (HPFF-72)	Free product up to 1.04' (16R), 1.2' (RW5), and 14.7' (HPFF-72)	≤0.01'
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.	≤10 mg/kg ≤10 mg/kg
Groundwater	Benzene Ethylbenzene Toluene Xylenes (Total) Naphthalene	12,900 µg/l 3,580 µg/l 27,100 µg/l 16,500 µg/l 700 µg/l	12,800 µg/l 1,980 µg/l 28,400 µg/l 17,200 µg/l 542 µg/l	1 µg/l 550 µg/l 1,000 µg/l 530 µg/l 21 µg/l

*"Final Corrective Action Plan, Leaking Underground Storage Tank, Hadnot Point Fuel Farm/Building 1115", Camp Lejeune, North Carolina, CATLIN Engineers and Scientists, April 30, 1998, Table 3.1.

Table 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, North West
SVE Stack

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Temperature (Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
12/03/03	16:20	33586	3	9400	531	822	0.02	1.17	14313.28	
12/11/03	15:40	33651	1	9100	561	754	0.01	0.36	14315.35	
12/18/03	15:50	33700	3	9500	567	779	0.02	1.11	14316.85	
12/26/03	8:30	33816	6	8100	566	663	0.03	1.89	14324.12	
12/31/03	14:55	33941	2	9200	573	747	0.01	0.71	14330.91	
01/07/04	15:15	33963	0	8800	543	753	0.00	0.00	14331.23	
01/13/04	9:00	34006	3	9100	536	789	0.02	1.13	14332.24	
01/22/04	12:45	34111	6	8700	560	721	0.03	2.06	14339.21	
01/29/04	13:30	34169	4	8500	544	726	0.02	1.38	14343.36	
02/04/04	13:22	34212	2	9500	556	793	0.01	0.76	14345.28	
02/13/04	15:40	34291	4	9500	549	804	0.02	1.53	14349.04	
02/19/04	12:25	34312	7	9600	555	804	0.04	2.68	14350.88	
02/27/04	13:20	34504	1	9800	530	859	0.01	0.41	14363.23	
03/04/04	11:30	34590	5	9500	562	785	0.03	1.87	14367.31	
03/12/04	9:00	34743	14	8600	544	734	0.07	4.89	14388.86	
03/17/04	8:00	34806	22	8800	550	743	0.12	7.77	14405.48	
03/25/04	10:35	34833	14	8800	561	728	0.07	4.85	14412.58	
04/01/04	9:00	34943	15	8800	550	743	0.08	5.30	14435.85	
04/09/04	14:00	35029	9	8900	565	731	0.05	3.13	14450.96	
04/15/04	9:30	35076	11	8500	544	724	0.06	3.79	14457.74	
04/21/04	12:00	35109	12	8700	566	714	0.06	4.08	14463.15	
04/28/04	12:35	35262	6	8700	555	729	0.03	2.08	14482.77	
05/04/04	10:25	35361	12	8800	570	717	0.06	4.10	14495.51	
05/11/04	11:15	35513	4	9200	581	735	0.02	1.40	14512.92	
05/18/04	14:45	35647	6	8900	585	707	0.03	2.02	14522.46	
05/26/04	9:30	35820	5	8500	575	687	0.03	1.63	14535.62	
06/04/04	12:15	35951	2	8800	571	716	0.01	0.68	14541.94	No data 6/11
06/18/04	11:45	36132	5	8600	588	679	0.03	1.62	14550.60	
06/23/04	9:30	36251	12	8500	581	679	0.06	3.88	14564.23	
07/07/04	13:40	36584	6	8800	602	679	0.03	1.94	14604.60	No data 7/2
07/15/04	9:30	36754	13	8100	581	648	0.07	4.01	14625.66	
07/21/04	10:40	36899	9	8400	589	662	0.05	2.84	14646.33	
07/28/04	15:35	37064	5	8800	586	698	0.03	1.66	14661.79	

Table 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, North West
SVE Stack

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Temperature (Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
08/06/04	11:25	37249	8	8800	579	706	0.04	2.69	14678.55	
08/11/04	7:20	37296	4	8500	572	690	0.02	1.31	14682.47	
08/18/04	9:00	37369	26	8400	596	655	0.14	8.10	14696.79	
08/25/04	10:00	37536	8	8500	581	678	0.04	2.58	14733.95	
09/01/04	11:10	37666	9	8500	578	683	0.05	2.92	14748.86	
09/10/04	12:00	37856	5	8800	583	701	0.03	1.67	14767.04	
09/16/04	10:40	37998	8	8600	577	692	0.04	2.63	14779.77	
09/22/04	10:45	38141	17	8800	578	707	0.09	5.72	14804.67	
09/29/04	13:10	38231	9	8600	584	684	0.05	2.93	14820.90	
10/07/04	9:00	38339	6	8800	558	732	0.03	2.09	14832.19	
10/13/04	12:50	38462	13	8500	562	702	0.07	4.34	14848.68	
10/20/04	10:50	38626	4	9300	571	756	0.02	1.44	14868.44	
10/27/04	10:00	38768	2	8600	564	708	0.01	0.67	14874.70	
11/05/04	9:45	38979	4	8500	546	723	0.02	1.38	14883.71	
11/10/04	9:40	39071	1	8700	544	743	0.01	0.35	14887.03	
11/18/04	15:40	39242	4	8600	564	708	0.02	1.35	14893.09	
12/16/04	11:15	39646	10	8900	535	773	0.05	3.68	14935.40	
12/23/04	11:15	39707	12	8500	562	703	0.06	4.01	14945.18	
01/09/05	10:00	39917	6	8700	558	724	0.03	2.07	14971.78	
01/15/05	16:15	39990	3	8900	538	768	0.02	1.10	14976.59	
01/19/05	15:10	40024	6	8600	532	751	0.03	2.14	14978.88	
01/27/05	12:05	40141	4	8600	536	745	0.02	1.42	14987.56	
02/04/05	8:50	40229	5	8800	523	782	0.03	1.86	14993.57	
02/10/05	15:00	40268	7	8500	536	736	0.04	2.45	14997.08	
02/17/05	15:25	40435	6	8500	541	730	0.03	2.08	15012.87	
02/25/05	9:55	40584	7	8900	534	775	0.04	2.58	15027.35	
03/04/05	10:15	40643	12	8600	545	733	0.06	4.19	15035.67	
03/09/05	10:30	40720	5	8500	537	735	0.03	1.75	15045.19	
03/18/05	9:20	40873	7	8800	537	761	0.04	2.54	15058.86	
03/21/05	10:30	40913	13	8500	547	722	0.07	4.47	15064.69	

Table 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, North West
SVE Stack

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Temperature (Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
03/29/05	9:50	41004	8	8900	553	748	0.04	2.85	15078.56	
04/07/05	11:30	41120	8	8600	565	707	0.04	2.69	15091.95	
04/14/05	11:06	41151	10	8700	548	737	0.05	3.51	15095.96	
04/21/05	12:40	41248	12	8600	578	691	0.06	3.94	15111.02	
04/29/05	15:35	41399	11	8100	567	663	0.06	3.47	15134.35	
05/18/05	13:30	41637	17	8800	572	715	0.09	5.78	15180.23	
05/26/05	9:45	41790	11	8500	564	700	0.06	3.67	15210.35	
06/02/05	15:40	41981	15	8100	562	669	0.08	4.78	15243.96	
06/09/05	10:15	42116	18	8500	575	687	0.10	5.88	15273.95	
06/22/05	13:40	42419	12	8300	578	667	0.06	3.81	15335.13	
06/30/05	14:30	42611	8	8300	581	664	0.04	2.53	15360.47	
07/09/05	11:50	42669	7	8500	576	686	0.04	2.28	15366.29	
07/16/05	12:30	42787	10	8600	578	691	0.05	3.29	15379.99	
07/19/05	15:30	42836	16	8800	576	710	0.09	5.41	15388.87	
07/29/05	16:40	42938	14	8800	572	715	0.07	4.76	15410.47	
08/03/05	16:15	43044	6	8500	576	686	0.03	1.96	15425.31	
08/11/05	15:15	43234	12	8800	583	701	0.06	4.01	15448.92	
08/18/05	10:39	43369	13	9000	582	712	0.07	4.41	15472.57	
08/24/05	16:10	43520	8	8500	574	687	0.04	2.62	15494.67	
08/31/05	16:10	43679	10	8700	579	697	0.05	3.23	15514.01	Extrapolated Data

Notes:

$_{measured}) \times K \times (M_g/K_g) / 1000$

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)

percent water vapor by volume	0.003
SVE Stack pipe diameter	4

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

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)

* Estimated value due to malfunctioning instrument

$M = Q \times C \times 0.0895$

M: hydrocarbon recovery rate (lb/day)

CM = [delta (blower meter hours)/24] * [(Mprevious + Mcurrent)/2] + CMprevious

Assumptions:

Mg = 128 mg/mg-mole

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

B = 0.003 from Perry's Chemical Handbook

A = 0.0873 sq. ft

Table 3.2
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, South East Compound

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	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
03/04/04	13:10	8364	83	9900	574	1854	0.44	73.23	1,179,527.78	
03/12/04	7:50	8539	89	9800	557	1891	0.47	80.09	1,180,086.76	
03/17/04	10:15	8660	122	9600	540	1909	0.65	110.87	1,180,568.15	
03/25/04	9:45	8852	220	10500	564	2001	1.17	209.53	1,181,849.76	
04/01/04	8:00	9017	78	9100	542	1803	0.41	66.93	1,182,800.08	
04/09/04	13:30	9072	68	9300	567	1762	0.36	57.02	1,182,942.11	
04/15/04	8:00	9189	86	9200	550	1797	0.46	73.54	1,183,260.34	
04/22/04	12:00	9310	71	9400	552	1829	0.38	61.82	1,183,601.56	
04/28/04	13:00	9454	64	9800	558	1887	0.34	57.49	1,183,959.49	
05/04/04	9:30	9588	89	9300	552	1809	0.47	76.63	1,184,333.92	
05/11/04	9:00	9755	73	9800	573	1837	0.39	63.82	1,184,822.60	
05/20/04	12:00	9969	68	9100	584	1672	0.36	54.11	1,185,348.42	
05/26/04	8:00	10111	52	9600	585	1762	0.28	43.61	1,185,637.52	
06/04/04	12:50	10331	68	9400	588	1717	0.36	55.57	1,186,092.12	No data 6/11
06/18/04	13:45	10667	85	9700	586	1777	0.45	71.91	1,186,984.49	
06/23/04	11:00	10771	51	9700	586	1778	0.27	43.17	1,187,233.82	
07/09/04	14:00	11035	73	9500	591	1727	0.39	59.99	1,187,801.16	No data 7/2
07/16/04	14:25	11199	54	8900	577	1658	0.29	42.60	1,188,151.66	
07/21/04	11:20	11319	65	9600	586	1761	0.35	54.49	1,188,394.38	System down 7/30
08/13/04	15:20	11397	58	9800	581	1812	0.31	50.02	1,188,564.21	
08/18/04	10:30	11469	47	10400	580	1926	0.25	43.09	1,188,703.89	
08/25/04	12:00	11636	79	9600	580	1778	0.42	66.84	1,189,086.38	
09/01/04	9:40	11803	61	9100	585	1672	0.32	48.53	1,189,487.79	
09/10/04	14:20	12025	58	9500	587	1738	0.31	47.99	1,189,934.18	
09/16/04	15:10	12170	79	9400	574	1760	0.42	66.17	1,190,279.02	
09/22/04	11:30	12310	87	10100	584	1858	0.46	76.95	1,190,696.46	
09/29/04	13:45	12480	101	9200	591	1671	0.54	80.34	1,191,253.53	

Table 3.2
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, South East Compound

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	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
10/07/04	9:40	12668	79	9100	566	1725	0.42	64.87	1,191,822.24	
10/13/04	14:15	12817	104	9900	578	1841	0.55	91.11	1,192,306.41	
10/20/04	11:30	12982	59	9900	584	1822	0.31	51.15	1,192,795.42	
10/27/04	10:40	13149	69	10200	573	1913	0.37	62.82	1,193,191.96	
11/05/04	10:20	13362	64	10200	558	1964	0.34	59.83	1,193,736.24	
11/10/04	10:15	13482	54	9900	551	1931	0.29	49.62	1,194,009.88	
11/20/04	10:35	13723	63	9900	558	1906	0.34	57.14	1,194,545.92	
12/16/04	12:30	14346	67	9700	556	1875	0.36	59.78	1,196,063.47	
12/23/04	12:50	14492	118	9800	569	1850	0.63	103.89	1,196,561.32	
01/09/05	10:40	14919	82	9800	563	1870	0.44	72.97	1,198,134.65	
01/15/05	15:20	15042	68	10100	548	1981	0.36	64.10	1,198,485.89	
01/19/05	14:05	15097	66	9700	538	1937	0.35	60.83	1,198,629.04	
01/27/05	15:30	15265	62	9600	545	1892	0.33	55.84	1,199,037.40	
02/04/05	9:20	15425	61	9300	538	1856	0.32	53.89	1,199,403.18	
02/09/05	13:20	15550	39	9300	552	1810	0.21	33.61	1,199,631.03	
02/17/05	16:30	15743	48	9400	546	1849	0.26	42.24	1,199,936.02	
02/25/05	11:10	15931	46	9100	545	1793	0.24	39.26	1,200,255.26	
03/04/05	11:30	16100	49	9100	548	1784	0.26	41.62	1,200,540.03	
03/09/05	11:30	16220	54	9500	543	1881	0.29	48.33	1,200,764.89	
03/18/05	10:40	16435	49	9800	545	1933	0.26	45.09	1,201,183.32	
03/21/05	11:20	16508	53	9800	553	1904	0.28	48.04	1,201,324.95	
03/29/05	10:45	16698	56	9800	558	1888	0.30	50.31	1,201,714.26	
04/06/05	16:35	16895	47	9500	564	1810	0.25	40.49	1,202,086.93	
04/14/05	13:50	17086	48	9400	550	1833	0.26	41.89	1,202,414.72	
04/22/05	15:00	17278	51	9400	582	1732	0.27	42.05	1,202,750.46	System down 4/29/05

Table 3.2
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparge / Soil Vapor Extraction System
MCB Camp Lejeune - Hadnot Point Fuel Farm, South East Compound

Date	Time	SVE Blower Hour Meter (Hrs)	TH Conc ($PPM_{measured}$) (PPMv)	Vapor Velocity (V) (ft/min)	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
05/18/05	14:40	17438	501	8100	579	1510	2.66	360.02	1,204,090.69	
05/26/05	10:40	17627	387	7600	576	1418	2.06	261.22	1,206,536.83	
06/04/05	9:00	17805	306	7800	568	1483	1.63	216.00	1,208,306.55	
06/10/05	14:50	17953	517	7800	578	1456	2.75	358.38	1,210,077.55	
06/22/05	15:20	18104	417	7400	591	1351	2.22	268.14	1,212,048.46	
06/30/05	16:05	18297	513	7900	590	1446	2.73	353.09	1,214,546.32	
07/09/05	12:45	18379	317	7600	584	1405	1.69	211.96	1,215,511.61	
07/16/05	14:00	18425	492	7600	588	1395	2.62	326.73	1,216,027.85	
07/19/05	16:30	18450	406	7800	582	1446	2.16	279.43	1,216,343.55	
07/29/05	17:05	18679	441	7800	577	1459	2.35	306.30	1,219,137.97	
08/03/05	16:40	18800	382	8100	583	1500	2.03	272.75	1,220,597.66	
08/11/05	15:50	18973	301	7800	588	1432	1.60	205.20	1,222,320.28	
08/18/05	11:12	19119	292	8200	591	1500	1.55	208.41	1,223,578.33	
08/24/05	16:50	19253	319	8400	586	1548	1.70	235.05	1,224,816.33	
08/31/05	16:50	19404	324	8125	587	1495	1.72	230.19	1,226,279.90	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)

CM = [delta (blower meter hours)/24] * [(Mprevious + Mcurrent)/2] + CMprevious

Assumptions:

Mg = 128 mg/mg-mole

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

B = 0.003 from Perry's Chemical Handbook

A = 0.2005 sq. ft (6-INCH SCH-40 STACK)

percent water vapor by volume	0.003
SVE Stack pipe diameter	8

* Estimated value due to malfunctionng instrument

Table 4.1

Groundwater Elevation Table

Hadnot Point Fuel Farm - North West

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)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)
UST1115-MW01	shallow	26.11	Aug-03	6.66	19.45	Feb-04	7.31	18.80	Aug-04	4.17	21.94	Mar-05	9.01	17.10	Aug-05	8.15	17.96
UST1115-MW02	shallow	25.97	Aug-03	6.25	19.72	Feb-04	8.89	17.08	Aug-04	8.80	17.17	Mar-05	8.66	17.31	Aug-05	8.51	17.46
UST1115-MW04	shallow	27.31	Aug-03	1.82	25.49	Feb-04	4.71	22.60	Aug-04	3.10	24.21	Mar-05	4.55	22.76	Aug-05	3.48	23.83
UST1115-MW05	shallow	26.37	Aug-03	3.59	22.78	Feb-04	3.96	22.41	Aug-04	4.17	22.20	Mar-05	NM	NM	Aug-05	NM	NM
UST1115-MW07	shallow	26.28	Aug-03	NM	NM	Feb-04	NM	NM	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	NM	NM
UST1115-MW09	shallow	28.48	Aug-03	8.26	20.22	Feb-04	8.32	20.16	Aug-04	7.10	21.38	Mar-05	NM	NM	Aug-05	NM	NM
UST1115-MW10	shallow	25.92	Aug-03	4.08	21.84	Feb-04	5.32	20.60	Aug-04	6.25	19.67	Mar-05	NM	NM	Aug-05	NM	NM
UST1115-MW11	shallow	27.89	Aug-03	6.59	21.30	Feb-04	7.41	20.48	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	NM	NM
UST1115-MW12	shallow	26.17	Aug-03	3.68	22.49	Feb-04	4.59	21.58	Aug-04	3.51	22.66	Mar-05	NM	NM	Aug-05	NM	NM
UST1115GT-MW01	shallow	26.75	Aug-03	2.36	24.39	Feb-04	3.96	22.79	Aug-04	3.29	23.46	Mar-05	4.24	22.51	Aug-05	9.12	17.63
UST1115GT-MW09	shallow	26.48	Aug-03	4.19	22.29	Feb-04	4.57	21.91	Aug-04	4.20	22.28	Mar-05	5.97	20.51	Aug-05	5.33	21.15
IR78-GW22-2	shallow	28.93	Aug-03	6.83	22.10	Feb-04	7.52	21.41	Aug-04	6.92	22.01	Mar-05	8.57	20.36	Aug-05	8.06	20.87
UST1115-MW13	intermediate	25.90	Aug-03	7.59	18.31	Feb-04	8.00	17.90	Aug-04	8.95	16.95	Mar-05	9.04	16.86	Aug-05	6.54	19.36
UST1115-MW14	intermediate	27.96	Aug-03	7.49	20.47	Feb-04	9.75	18.21	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	11.09	16.87
UST1115-MW15	intermediate	25.93	Aug-03	7.44	18.49	Feb-04	7.23	18.70	Aug-04	7.00	18.93	Mar-05	NM	NM	Aug-05	8.09	17.84
UST1115-MW17	intermediate	26.19	Aug-03	8.31	17.88	Feb-04	8.40	17.79	Aug-04	8.22	17.97	Mar-05	10.10	16.09	Aug-05	10.00	16.19
UST1115-MW18	intermediate	27.61	Aug-03	8.82	18.79	Feb-04	8.18	19.43	Aug-04	Surging	Surging	Mar-05	10.08	17.53	Aug-05	9.90	17.71
UST1115-MW21	intermediate	25.89	Aug-03	7.42	18.47	Feb-04	7.64	18.25	Aug-04	7.13	18.76	Mar-05	9.23	16.66	Aug-05	9.10	16.79
UST1115-MW22	deep	27.48	Aug-03	9.96	17.52	Feb-04	9.97	17.51	Aug-04	8.80	18.68	Mar-05	11.66	15.82	Aug-05	11.79	15.69
UST1115-MW23	deep	27.90	Aug-03	9.25	18.65	Feb-04	9.00	18.90	Aug-04	8.85	19.05	Mar-05	10.82	17.08	Aug-05	10.88	17.02
UST1115-MW24	deep	26.18	Aug-03	8.81	17.37	Feb-04	6.94	19.24	Aug-04	6.52	19.66	Mar-05	10.42	15.76	Aug-05	10.50	15.68
UST1115-MW25	deep	26.16	Aug-03	8.07	18.09	Feb-04	8.02	18.14	Aug-04	7.33	18.83	Mar-05	9.77	16.39	Aug-05	9.73	16.43
IR78-GW-19	deep	29.18	Aug-03	6.22	22.96	Feb-03	7.18	22.00	Aug-04	8.42	20.76	Mar-05	NM	NM	Aug-05	NM	NM

NM = Not Measured
ıove National Geodetic Vertical Datum (NGVD)

Table 4.2

Groundwater Elevation Table

Hadnot Point Fuel Farm - South East

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)	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)
USTHPFFC-MW01	shallow	28.46	Aug-03	2.92	25.54	Feb-04	5.21	23.25	Aug-04	7.60	20.86	Mar-05	5.33	23.13	Aug-05	4.29	24.17
USTHPFFC-MW03	shallow	31.21	Aug-03	8.03	23.18	Feb-04	8.59	22.62	Aug-04	8.39	22.82	Mar-05	NM	NM	Aug-05	NM	NM
USTHPFFC-MW05	shallow	28.79	NM	NM	NM	NM	NM	NM	NM	NM	NM	Mar-05	7.38	21.41	Aug-05	6.73	22.06
USTHPFFC-MW14	shallow	27.02	Aug-03	3.65	23.37	Feb-04	5.19	21.83	Aug-04	5.37	21.65	Mar-05	5.54	21.48	Aug-05	5.31	21.71
USTHPFFC-MW17	shallow	27.61	Aug-03	NM	NM	Feb-04	NM	NM	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	NM	NM
USTHPFFC-MW19	shallow	26.43	Aug-03	7.87	18.56	Feb-04	4.52	21.91	Aug-04	6.52	19.91	Mar-05	5.94	20.49	Aug-05	NM	NM
USTHPFFC-MW20	shallow	28.74	Aug-03	6.29	22.45	Feb-04	6.33	22.41	Aug-04	5.95	22.79	Mar-05	7.37	21.37	Aug-05	7.22	21.52
USTHPFFC-MW22	shallow	26.82	Aug-03	NM	NM	Feb-04	NM	NM	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	NM	NM
USTHPFFC-MW24	shallow	31.37	Aug-03	9.92	21.45	Feb-04	NM	NM	Aug-04	10.98	20.39	Mar-05	11.28	20.09	Aug-05	11.07	20.30
USTHPFFC-MW28	shallow	27.48	Aug-03	5.52	21.96	Feb-04	5.64	21.84	Aug-04	5.27	22.21	Mar-05	7.07	20.41	Aug-05	6.89	20.59
USTHPFFC-MW30	shallow	26.80	Aug-03	3.90	22.90	Feb-04	3.87	22.93	Aug-04	3.31	23.49	Mar-05	4.87	21.93	Aug-05	4.69	22.11
USTHPFFC-MW42	shallow	27.71	Aug-03	4.09	23.62	Feb-04	4.54	23.17	Aug-04	7.32	20.39	Mar-05	6.20	21.51	Aug-05	6.11	21.60
USTHPFF-MW01	shallow	30.18	Aug-03	7.39	22.79	Feb-04	7.89	22.29	Aug-04	5.13	25.05	Mar-05	9.33	20.85	Aug-05	9.19	20.99
USTHPFF-MW06	shallow	30.10	Aug-03	7.17	22.93	Feb-04	7.58	22.52	Aug-04	NM	NM	Mar-05	8.73	21.37	Aug-05	8.66	21.44
USTHPFF-MW10R	shallow	33.96	Aug-03	11.24	22.72	Feb-04	11.34	22.62	Aug-04	11.20	22.76	Mar-05	12.54	21.42	Aug-05	12.47	21.49
USTHPFF-MW11	shallow	28.74	NM	NM	NM	NM	NM	NM	NM	NM	NM	Mar-05	6.95	21.79	Aug-05	6.81	21.93
USTHPFF-MW17A	shallow	31.33	Aug-03	9.62	21.71	Feb-04	9.58	21.75	Aug-04	9.15	22.18	Mar-05	11.22	20.11	Aug-05	11.08	20.25
USTHPFF-MW18	shallow	31.97	Aug-03	9.82	22.15	Feb-04	9.83	19.79	Aug-04	9.92	22.05	Mar-05	11.24	20.73	Aug-05	11.20	20.77
USTHPFF-MW19	shallow	32.18	Aug-03	9.07	23.11	Feb-04	10.17	22.01	Aug-04	NM	NM	Mar-05	11.82	20.36	Aug-05	11.70	20.48
USTHPFFC-MW07	intermediate	28.28	Aug-03	8.12	20.16	Feb-04	7.80	20.48	Aug-04	7.82	20.46	Mar-05	9.65	18.63	Aug-05	9.69	18.59
USTHPFFC-MW08	intermediate	34.90	Aug-03	13.46	21.44	Feb-04	13.93	20.97	Aug-04	15.10	19.80	Mar-05	15.55	19.35	Aug-05	15.41	19.49
USTHPFFC-MW09	intermediate	27.13	Aug-03	7.56	19.57	Feb-04	7.09	20.04	Aug-04	7.80	19.33	Mar-05	8.82	18.31	Aug-05	8.62	18.51
IR-78GW32-2	deep	26.87	Aug-03	6.89	19.98	Feb-04	7.33	19.54	Aug-04	8.85	18.02	Mar-05	9.12	17.75	Aug-05	NM	NM
IR-78GW32-3	deep	27.20	Aug-03	7.85	19.35	Feb-04	7.76/7.94	19.26	Aug-04	7.26	19.94	Mar-05	8.54	19.26	Aug-05	NM	NM
USTHPFFC-MW10	deep	32.50	Aug-03	11.99	20.51	Feb-04	12.28	20.22	Aug-04	13.53	18.97	Mar-05	13.90	18.60	Aug-05	13.79	18.71
USTHPFFC-MW11	deep	32.28	Aug-03	11.81	20.47	Feb-04	12.20	20.08	Aug-04	13.41	18.87	Mar-05	13.88	18.40	Aug-05	NM	NM
USTHPFFC-MW12	deep	27.12	Aug-03	7.68	19.44	Feb-04	NM	NM	Aug-04	NM	NM	Mar-05	NM	NM	Aug-05	NM	NM

NM = Not Measured

All elevations are in feet above National Geodetic Vertical Datum (NGVD)

* = First Measurement Depth to Product/Second Measurement Depth to Groundwater

Table 4.3

Analytical Data Summary

NW Sampling Event **March 2005 Organics**

Sampling Event:		2005-A	2005-A	2005-A	2005-A	2005-A	2005-A	2005-A	2005-A
Well ID:		UST1115-MW23	UST1115-MW18	IR78-GW22-2	UST1115-MW24	UST1115-MW02	UST1115-MW22	UST1115-MW17	UST1115-MW21
Well Depth:		Deep	Intermediate	Shallow	Deep	Shallow	Deep	Intermediate	Intermediate
Laboratory Sample ID:		F30621-1	F30543-1	F30621-2	F30290-1	F30543-4	F30290-3	F30290-4	F30290-2
Date Sampled:		03/24/05	03/22/05	03/24/05	03/10/05	03/22/05	03/10/05	03/10/05	03/10/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**3120**	**9.6 J**	**78.5**	**1030**	**31.1**	**2850**	**72.3**	**338**
Ethylbenzene	550	**54.3**	**4.6**	**1.4**	<20	<1.0	<20	<5.0	<1.0
Toluene	1000	**346**	**2.0**	**12.6**	**23.2**	**3.3**	**20.3**	<5.0	<1.0
Xylenes (total)	530	**208**	**9.6**	**6.3**	<60	<3.0	<60	<15	<3.0
Total BTEX		**3728.3**	**25.8**	**98.8**	**1053.2**	**34.4**	**2870.3**	**72.3**	**338**
PAH EPA 610									
Naphthalene	21	<4.8	<4.8	<4.8	<4.8	<4.8	**4.0 J**	**4.8**	**2.9 J**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank

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Samples analyzed by Accutest

Table 4.3
Analytical Data Summary
NW Sampling Event **March 2005 Organics**

Sampling Event:		2005-A	2005-A	2005-A	2005-A	2005-A	2005-A	2005-A
Well ID:		UST1115-MW04	UST1115-MW13	UST1115-MW25	UST1115GT-MW01	UST1115-MW01	UST1115GT-MW07	UST1115GT-MW09
Well Depth:		Shallow	Intermediate	Deep	Shallow	Shallow	Shallow	Shallow
Laboratory Sample ID:		F30290-5	F30543-5	F30543-6	F30621-5	F30621-6	F30621-4	F30543-2
Date Sampled:		03/10/05	03/22/05	03/22/05	03/24/05	03/24/05	03/24/05	03/22/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**42.7**	**82.1**	**5170**	**35.8**	**3.8**	**11.0**	<1.0
Ethylbenzene	550	<1.0	**36.3**	**47.3 J**	**6.8**	<1.0	<1.0	<1.0
Toluene	1000	**0.55 J**	**0.67 J**	**418**	**1.8**	**0.71 J**	**2.2**	<1.0
Xylenes (total)	530	<3.0	**11.8**	**157**	**3.7**	<3.0	**1.2 J**	<3.0
Total BTEX		**43.25**	**130.87**	**5792.3**	**48.1**	**4.51**	**14.4**	
PAH EPA 610								
Naphthalene	21	<4.8	**129.0**	**3.3 J**	<4.8	<4.8	<4.8	<4.8
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

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Samples analyzed by Accutest

Table 4.4
Analytical Data Summary
NW Sampling Event **August 2005 Organics**

Sampling Event:		2005-C	2005-C	2005-C	2005-C	2005-C	2005-C	2005-C	2005-C
Well ID:		UST1115-MW23	UST1115-MW18	IR78-GW22-2	UST1115-MW24	UST1115-MW02	UST1115-MW22	UST1115-MW17	UST1115-MW21
Well Depth:		Deep	Intermediate	Shallow	Deep	Shallow	Deep	Intermediate	Intermediate
Laboratory Sample ID:		F34135-5	NS	F34226-1	F34226-10	F34226-5	F34226-9	F34226-7	F34226-8
Date Sampled:		8/17/05	8/17/05	8/18/05	8/18/05	8/18/05	8/18/05	8/18/05	8/18/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**5240**	NS	**4.7**	**3120**	<1.0	**3380**	**9.5**	**282**
Ethylbenzene	550	**91.7 J**	NS	<1.0	<50	<1.0	<50	<1.0	<5.0
Toluene	1000	**653**	NS	<1.0	<50	<1.0	**32.4 J**	<1.0	<5.0
Xylenes (total)	530	**315**	NS	<3.0	<150	<3.0	<150	**2.4 J**	<15
Total BTEX		**6299.7**		**4.7**	**3120**		**3412.4**	**11.9**	**282**
PAH EPA 610									
Naphthalene	21	**1.7 J**	NS	<1.9	<1.9	<1.9	**2.8**	**4.4**	**2.5**
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank
NS= not sampled

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Samples analyzed by Accutest

Table 4.4

Analytical Data Summary

NW Sampling Event **August 2005 Organics**

Sampling Event:		2005-C	2005-C	2005-C	2005-C	2005-C	2005-C	2005-C
Well ID:		UST1115-MW04	UST1115-MW13	UST1115-MW25	UST1115GT-MW01	UST1115-MW01	UST1115GT-MW07	UST1115GT-MW09
Well Depth:		Shallow	Intermediate	Deep	Shallow	Shallow	Shallow	Shallow
Laboratory Sample ID:		F34226-6	F34135-4	F34135-6	F34135-1	F34226-3	F34135-3	F34135-2
Date Sampled:		8/18/05	8/17/05	8/17/05	8/17/05	8/18/05	8/17/05	8/17/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**0.63 J**	**61.6**	**4990**	**268**	<1.0	**22.7**	<1.0
Ethylbenzene	550	<1.0	**31.2**	**58.3**	**6.8**	<1.0	<1.0	<1.0
Toluene	1000	**1.6**	<10	**678**	**2.7 J**	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<30	**216**	<15	<3.0	<3.0	<3.0
Total BTEX		**2.23**	**92.8**	**5942.3**	**277.5**		**22.7**	
PAH EPA 610								
Naphthalene	21	<1.9	**108**	**1.1 J**	**6.5**	<1.9	<1.9	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

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Samples analyzed by Accutest

Table 4.5
Analytical Data Summary
SE Sampling Event **April 2005 Organics**

Sampling Event:		2005-A	2005-A	2005-A	2005-A	2005-A	2005-A	2005-A	2005-A
Well ID:		USTHPFF-MW11	USTHPFFC-MW19	USTHPFFC-MW20	USTHPFF-MW01	USTHPFF-MW10R	USTHPFF-MW18	USTHPFFC-MW07	USTHPFFC-MW01
Well Depth:		Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Shallow
Laboratory Sample ID:		F30900-3	F31238-2	F31238-1	F31163-5	F31163-3	F31163-6	F30900-2	F30900-1
Date Sampled:		4/5/05	4/18/05	4/18/05	4/13/05	4/13/05	4/13/05	4/5/05	4/5/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602									
Benzene	1	**5.2**	**3720**	**13200**	**4480**	**487**	**12800**	<1.0	<1.0
Ethylbenzene	550	<1.0	**858**	**954**	**3670**	**108**	**1870**	**0.56 J**	<1.0
Toluene	1000	<1.0	**8230**	**13200**	**22200**	**288**	**27800**	<1.0	<1.0
Xylenes (total)	530	<3.0	**4350**	**7400**	**15300**	**524**	**11100**	<3.0	<3.0
Total BTEX		**5.2**	**17158**	**34754**	**45650**	**1407**	**53570**	**0.56**	
PAH EPA 610									
Naphthalene	21	<4.8	**235**	**238**	**355**	**34.5**	**562**	<4.8	<4.8
		Bold type indicates detectable concentrations.							
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).							

J= estimated
B= detected in blank

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Samples analyzed by Accutest

Table 4.5
Analytical Data Summary
SE Sampling Event **April 2005 Organics**

Sampling Event:		2005-A	2005-A	2005-A	2005-A	2005-A	2005-A	2005-A
Well ID:		IR78-GW32-2	IR78-GW32-3	USTHPFF-MW17A	USTHPFFC-MW08	USTHPFFC-MW05	USTHPFFC-MW09	USTHPFFC-MW11
Well Depth:		Deep	Deep	Shallow	Intermediate	Shallow	Intermediate	Deep
Laboratory Sample ID:		F30900-7	F30900-6	F31163-4	F31163-2	F30900-4	F30900-5	F31163-1
Date Sampled:		4/6/05	4/6/05	4/13/05	4/13/05	4/5/05	4/5/05	4/13/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**604**	**8.2**	**6500**	**10600**	<1.0	**0.76 J**	<1.0
Ethylbenzene	550	**15.4**	**1.4**	**3300**	**859**	<1.0	**0.57 J**	**0.64 J**
Toluene	1000	**48.4**	**5.5**	**22300**	**1680**	<1.0	**1.2**	**0.68 J**
Xylenes (total)	530	**110**	**20.5**	**12000**	**2750**	<3.0	**3.5**	<3.0
Total BTEX		**777.8**	**35.6**	**44100**	**15889**		**6.03**	**1.32**
PAH EPA 610								
Naphthalene	21	**6.7**	<4.9	**419**	**165**	<4.8	<4.8	<4.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

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Samples analyzed by Accutest

Table 4.6
Analytical Data Summary
SE Sampling Event **August 2005 Organics**

Sampling Event:		2005-C	2005-C	2005-C	2005-C	2005-C	2005-C	2005-C
Well ID:		USTHPFF-MW11	USTHPFFC-MW20	USTHPFF-MW01	USTHPFF-MW10R	USTHPFF-MW18	USTHPFFC-MW07	USTHPFFC-MW01
Well Depth:		Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Shallow
Laboratory Sample ID:		F34255-3	F34529-1	F34529-5	F34419-3	F34529-4	F34255-2	F34255-1
Date Sampled:		08/20/05	08/31/05	08/31/05	08/27/05	08/31/05	08/20/05	08/20/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**44.7**	**1030**	**4140**	**1060**	**12300**	<1.0	<1.0
Ethylbenzene	550	<1.0	**537**	**3850**	**319**	**1680**	<1.0	<1.0
Toluene	1000	**0.83 J**	**498**	**24400**	**929**	**28400**	<1.0	<1.0
Xylenes (total)	530	**2.9 J**	**1810**	**17200**	**1510**	**10600**	<3.0	<3.0
Total BTEX		**48.43**	**3875**	**49590**	**3818**	**52980**		
PAH EPA 610								
Naphthalene	21	<1.9	**101**	**542**	**53.6**	**487**	<1.9	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

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Samples analyzed by Accutest

Table 4.6
Analytical Data Summary
SE Sampling Event **August 2005 Organics**

Sampling Event:		2005-C	2005-C	2005-C	2005-C	2005-C	2005-C
Well ID:		USTHPFF-MW17A	USTHPFFC-MW08	USTHPFFC-MW05	USTHPFFC-MW09	USTHPFFC-MW10	USTHPFFC-MW11
Well Depth:		Shallow	Intermediate	Shallow	Intermediate	Deep	Deep
Laboratory Sample ID:		F34529-3	F34529-2	F34255-4	F34255-5	F34419-2	F34419-1
Date Sampled:		08/31/05	08/31/05	08/22/05	08/22/05	08/27/05	08/27/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**7380**	**7710**	<1.0	<5.0	<1.0	**1.3**
Ethylbenzene	550	**3270**	**349**	<1.0	<5.0	<1.0	<1.0
Toluene	1000	**26200**	**145**	<1.0	<5.0	<1.0	<1.0
Xylenes (total)	530	**12300**	**801**	<3.0	<15	**1.1 J**	<3.0
Total BTEX		**49150**	**9005**			**1.1**	**1.3**
PAH EPA 610							
Naphthalene	21	**373**	**80.9**	<1.9	<1.9	<1.9	<1.9
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 6/13/2006
Samples analyzed by Accutest

Table 6.1
Hadnot Point Fuel Farm, Northwest Compound
Groundwater Sample Collection and Analysis Table

Analysis	Type II Shallow Monitoring Wells						
	UST1115-MW01	UST1115-MW02	UST1115-MW04	UST1115GT-MW01	UST1115GT-MW07	UST1115GT-MW09	IR78GW22-2
Field Screening							
Temperature	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X
Chloride (field)	X	X	X	X	X	X	X
Ferrous Iron II (field)							
VOAs Method 602	X	X	X	X	X	X	X
PAHs Method 610	X	X	X	X	X	X	X
Natural Attenuation Parameters							
RSK 175 - Ethane, Ethylene, Methane	X	X	X	X	X	X	X
Method 354.1 - Nitrite, Nitrogen	X	X	X	X	X	X	X
Method 354 - Nitrite-Nitrate, Nitrogen	X	X	X	X	X	X	X
Method 375.4 - Sulfate	X	X	X	X	X	X	X
Method 415.1 TOC	X	X	X	X	X	X	X

Analysis	Type III Intermediate Monitoring Wells				Type III Deep Monitoring Wells			
	UST1115-MW13	UST1115-MW17	UST1115-MW18	UST1115-MW21	UST1115-MW22	UST1115-MW23	UST1115-MW24	UST1115-MW25
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
Chloride (field)	X	X	X	X	X	X	X	X
Ferrous Iron II (field)								
VOAs Method 602	X	X	X	X	X	X	X	X
PAHs Method 610	X	X	X	X	X	X	X	X
Natural Attenuation Parameters								
RSK 175 - Ethane, Ethylene, Methane	X	X	X	X	X	X	X	X
Method 354.1 - Nitrite, Nitrogen	X	X	X	X	X	X	X	X
Method 354 - Nitrite-Nitrate, Nitrogen	X	X	X	X	X	X	X	X
Method 375.4 - Sulfate	X	X	X	X	X	X	X	X
Method 415.1 TOC	X	X	X	X	X	X	X	X

Table 6.2
Hadnot Point Fuel Farm, Southeast Compound
Groundwater Sample Collection and Analysis Table

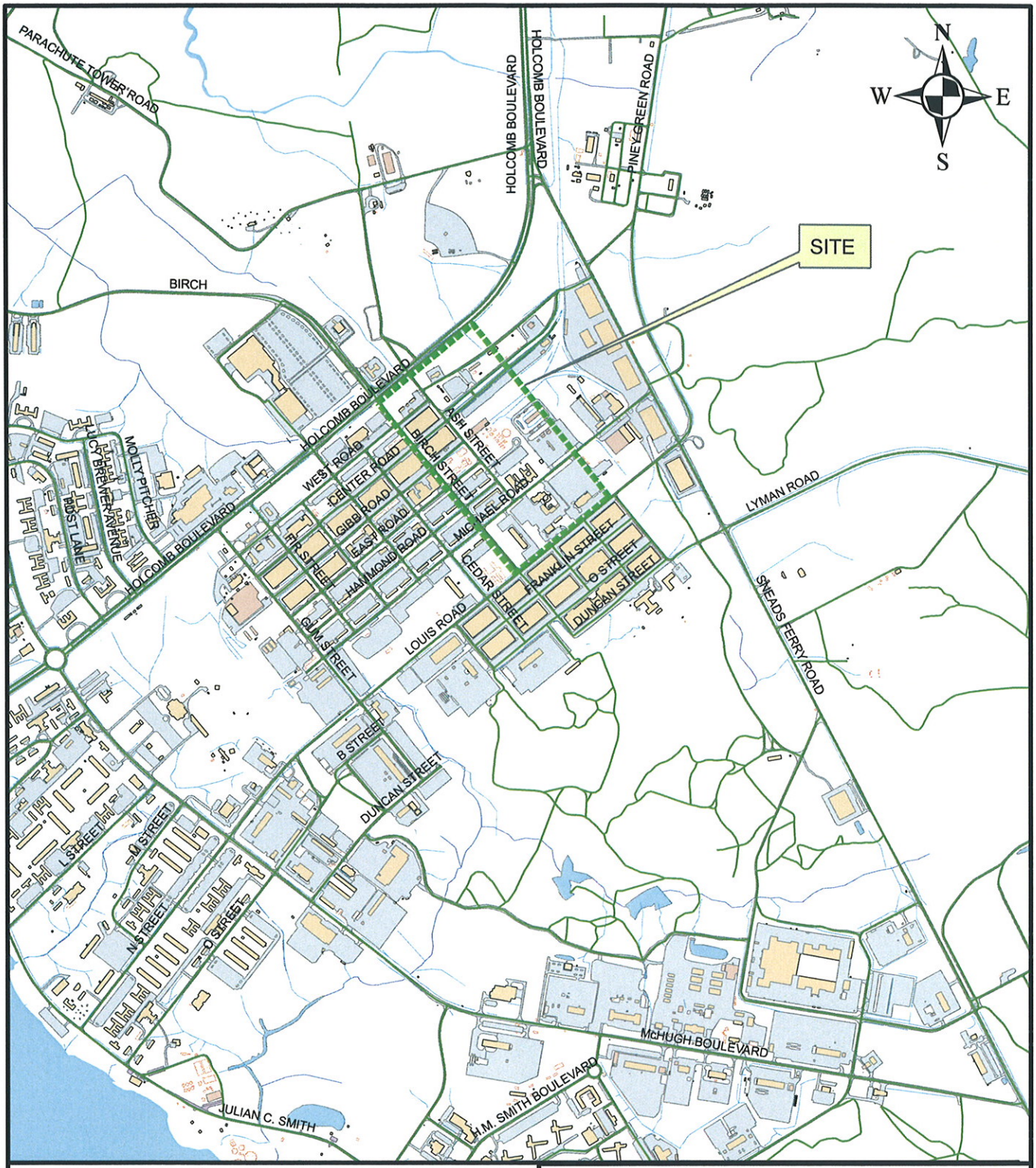
Analysis	Type II Shallow Monitoring Wells								
	USTHPFFC-MW01	USTHPFF-MW10R	USTHPFF-MW11	USTHPFF-MW17A	USTHPFF-MW18	USTHPFFC-MW01	USTHPFFC-MW05	USTHPFFC-MW19	USTHPFFC-MW20
Field Screening									
Temperature	X	X	X	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X	X	X	X
pH	X	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X	X
ORP	X	X	X	X	X	X	X	X	X
VOAs Method 602	X	X	X	X	X	X	X	X	X
PAHs Method 610	X	X	X	X	X	X	X	X	X
Natural Attenuation Parameters									
RSK 175 - Ethane, Ethylene, Methane	X	X	X	X	X	X	X	X	X
Method 354.1 - Nitrite, Nitrogen	X	X	X	X	X	X	X	X	X
Method 354 - Nitrite-Nitrate, Nitrogen	X	X	X	X	X	X	X	X	X
Method 375.4 - Sulfate	X	X	X	X	X	X	X	X	X
Method 415.1 TOC	X	X	X	X	X	X	X	X	X

Analysis	Type III Intermediate Wells			Type III Deep Wells		
	USTHPFFC-MW07	USTHPFFC-MW08	USTHPFFC-MW09	IR78GW32-2	IR78GW32-3	USTHPFFC-MW11
Field Screening						
Temperature	X	X	X	X	X	X
Conductivity	X	X	X	X	X	X
Turbidity	X	X	X	X	X	X
pH	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X
ORP	X	X	X	X	X	X
VOAs Method 602	X	X	X	X	X	X
PAHs Method 610	X	X	X	X	X	X
Natural Attenuation Parameters						
RSK 175 - Ethane, Ethylene, Methane	X	X	X	X	X	X
Method 354.1 - Nitrite, Nitrogen	X	X	X	X	X	X
Method 354 - Nitrite-Nitrate, Nitrogen	X	X	X	X	X	X
Method 375.4 - Sulfate	X	X	X	X	X	X
Method 415.1 TOC	X	X	X	X	X	X



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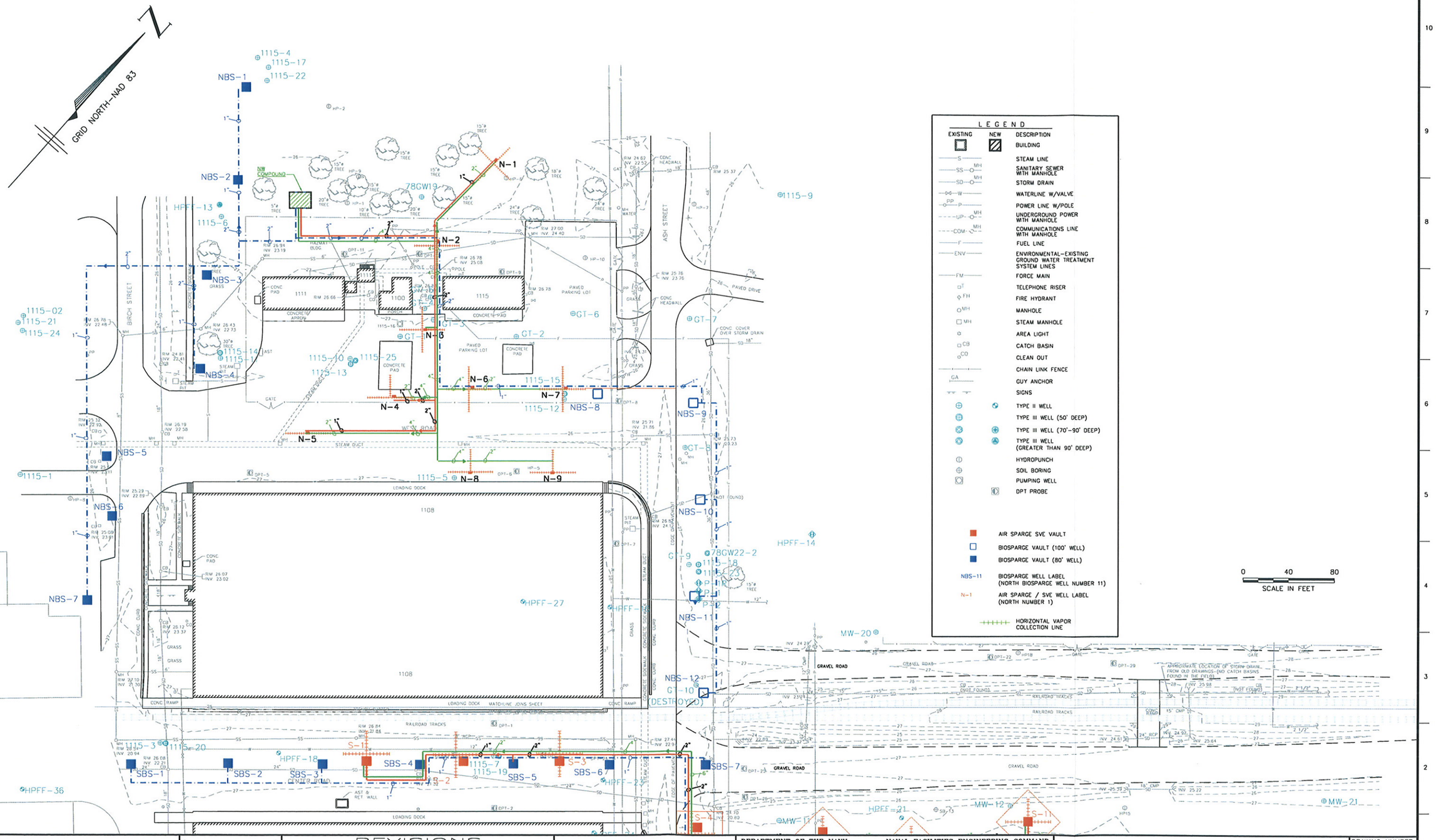
FIGURE 1.1
VICINITY MAP
HADNOT POINT FUEL FARM
CAMP LEUJEUNE, NC

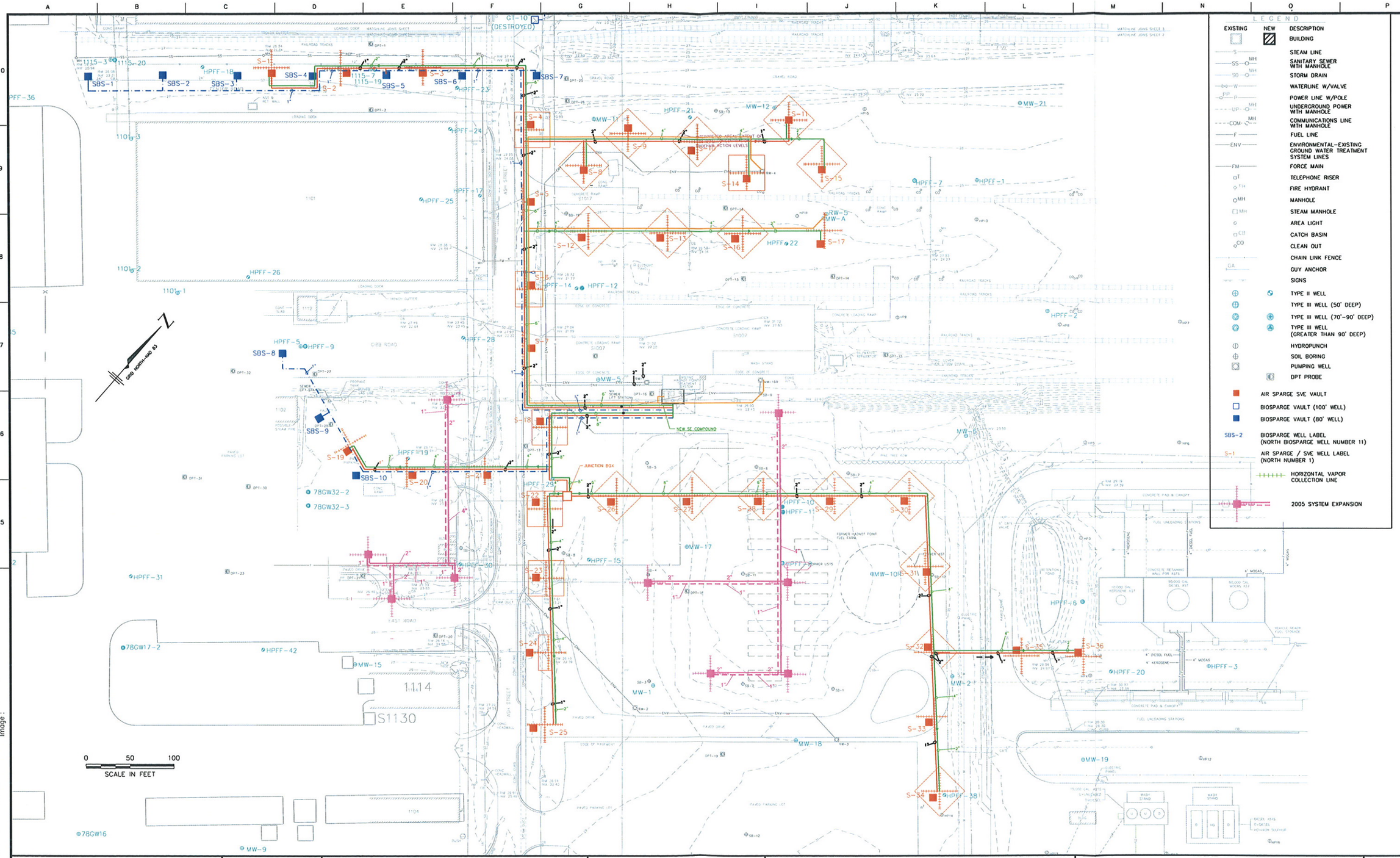


0 625 1,250 2,500 3,750 5,000 Feet

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FIGURE 1.2
SITE LOCATION MAP
HADNOT POINT FUEL FARM
CAMP LEJEUNE, NORTH CAROLINA


GRID NORTH-NAD 83
NBS-1
NBS-2
NBS-3
NBS-4
NBS-5
NBS-6
NBS-7
NBS-8
NBS-9
NBS-10
NBS-11
NBS-12
N-1
N-2
N-4
N-5
N-6
N-7
N-8
N-9
NW COMPOUND
78GW19
78GW22-2
HPFF-13
HPFF-14
HPFF-18
HPFF-21
HPFF-22
HPFF-27
HPFF-36
1115-1
1115-2
1115-3
1115-4
1115-5
1115-6
1115-7
1115-9
1115-10
1115-12
1115-13
1115-15
1115-16
1115-17
1115-19
1115-20
1115-21
1115-22
1115-24
1115-25
MW-12
MW-13
MW-20
MW-21
S-1
S-3
S-4
SBS-1
SBS-2
SBS-3
SBS-4
SBS-5
SBS-6
SBS-7
GT-2
GT-6
GT-7
GT-10 (DESTROYED)
1100
1108
1111
1115
BIRCH STREET
ASH STREET
CONCRETE APRON
CONCRETE PAD
CONCRETE PAD
PAVED PARKING LOT
PAVED PARKING LOT
PAVED DRIVE
HAZMAT BLDG
CONC HEADWALL
CONC HEADWALL
CONC COVER OVER STORM DRAIN
GRASS
GRASS
GRASS
GRAVEL ROAD
GRAVEL ROAD
GRAVEL ROAD
RAILROAD TRACKS
RAILROAD TRACKS
LOADING DOCK
LOADING DOCK
CONC RAMP
CONC RAMP
CONC PAD
CONC PAD
CONC PAD



LEGEND

EXISTING	NEW	DESCRIPTION
		BUILDING
S		STEAM LINE
SS		SANITARY SEWER WITH MANHOLE
SD		STORM DRAIN
W		WATERLINE W/VALVE
P		POWER LINE W/POLE
UP		UNDERGROUND POWER WITH MANHOLE
COM		COMMUNICATIONS LINE WITH MANHOLE
F		FUEL LINE
ENV		ENVIRONMENTAL–EXISTING GROUND WATER TREATMENT SYSTEM LINES
FM		FORCE MAIN
T		TELEPHONE RISER
FH		FIRE HYDRANT
MH		MANHOLE
MH		STEAM MANHOLE
		AREA LIGHT
CB		CATCH BASIN
CO		CLEAN OUT
		CHAIN LINK FENCE
GA		GUY ANCHOR
		SIGNS
		TYPE II WELL
		TYPE III WELL (50' DEEP)
		TYPE III WELL (70'–90' DEEP)
		TYPE III WELL (GREATER THAN 90' DEEP)
		HYDROPUNCH
		SOIL BORING
		PUMPING WELL
		DPT PROBE
		AIR SPARGE SVE VAULT
		BIOSPARGE VAULT (100' WELL)
		BIOSPARGE VAULT (80' WELL)

SBS-2 BIOSPARGE WELL LABEL (NORTH BIOSPARGE WELL NUMBER 11)

S-1 AIR SPARGE / SVE WELL LABEL (NORTH NUMBER 1)

HORIZONTAL VAPOR COLLECTION LINE

2005 SYSTEM EXPANSION

File: Y:\LEJEUNE-6-05\RAC_IV\HPFF OPERATION AND MAINT\2005_AMR\EXIST_AS_SVE_SYSTEM_SE_2005.dwg
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Plotted By: john.lange
Xref: 20764BAS
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Shaw
Shaw Environmental, Inc.

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APPROVED: _____ DATE: _____ DEPT. MANAGER

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINA

CONTRACT N62470-02-D-3260 TASK ORDER NO. 055

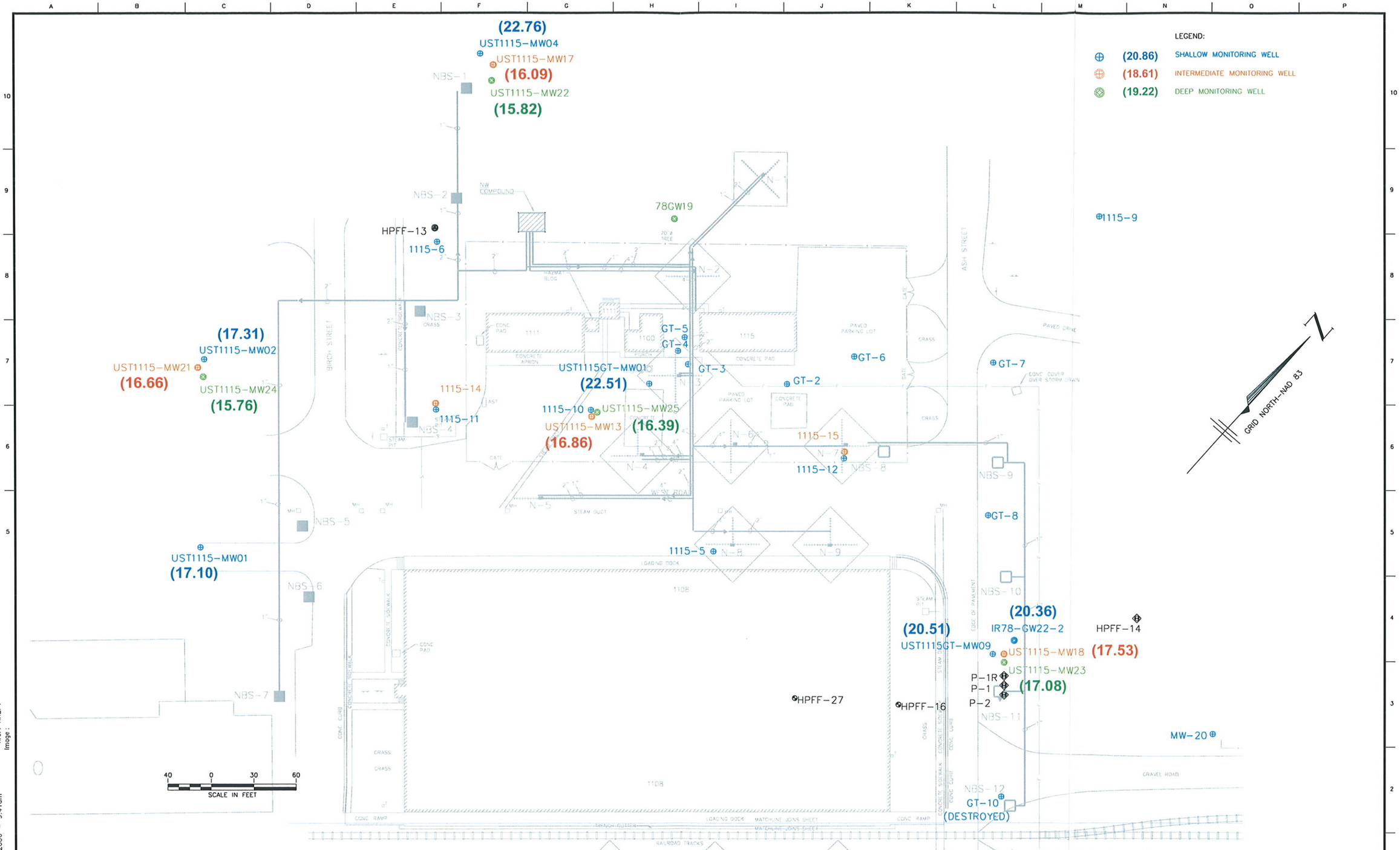
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 3.2
EXISTING AS/SVE REMEDIAL SYSTEM
SE COMPOUND
HADNOT POINT FUEL FARM

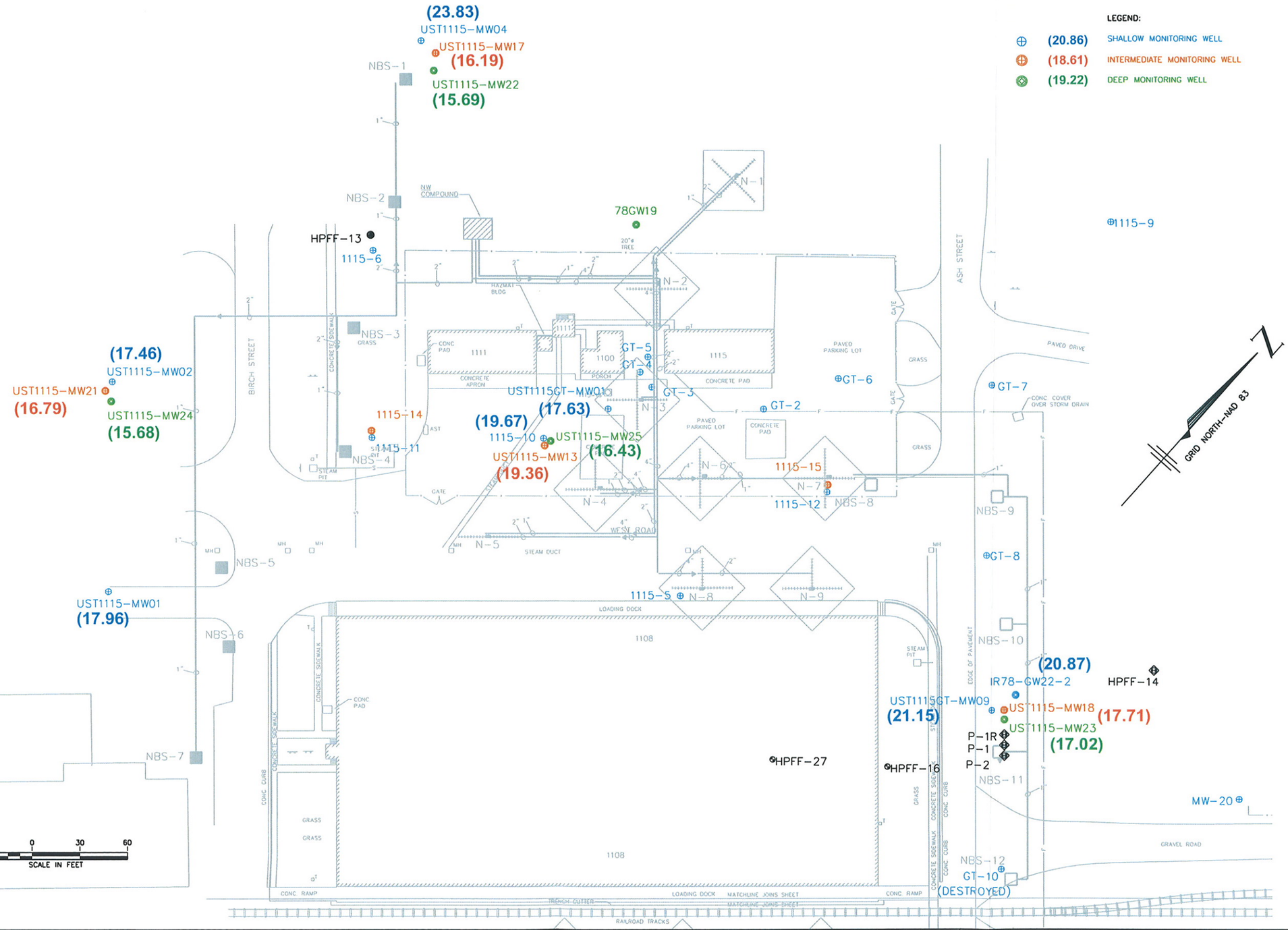
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SHEET NUMBER: of

DATE: 1/24/06


LEGEND:
(20.86) SHALLOW MONITORING WELL
(18.61) INTERMEDIATE MONITORING WELL
(19.22) DEEP MONITORING WELL
(22.76)
UST1115-MW04
UST1115-MW17
(16.09)
UST1115-MW22
(15.82)
NBS-1
NBS-2
NBS-3
NBS-4
NBS-5
NBS-6
NBS-7
NBS-8
NBS-9
NBS-10
NBS-11
NBS-12
NW COMPOUND
78GW19
HPFF-13
1115-6
1115-9
(17.31)
UST1115-MW02
UST1115-MW21
(16.66)
UST1115-MW24
(15.76)
1115-14
1115-11
UST1115GT-MW01
(22.51)
1115-10
UST1115-MW25
(16.39)
UST1115-MW13
(16.86)
GT-2
GT-3
GT-4
GT-5
GT-6
GT-7
GT-8
1115-15
1115-12
1115-5
UST1115-MW01
(17.10)
HPFF-27
HPFF-16
(20.51)
UST1115GT-MW09
(20.36)
IR78-GW22-2
HPFF-14
UST1115-MW18
(17.53)
UST1115-MW23
P-1R
P-1
P-2
(17.08)
MW-20
GT-10
(DESTROYED)
BIRCH STREET
ASH STREET
PAVED DRIVE
GRAVEL ROAD
RAILROAD TRACKS
WEST ROAD
STEAM DUCT
LOADING DOCK
CONC RAMP
CONCRETE SIDEWALK
CONC CURB
CONC PAD
CONCRETE PAD
CONCRETE APRON
PAVED PARKING LOT
GRASS
GATE
1100
1108
1111
1115
N
SCALE IN FEET
40 0 30 60
GRID NORTH-NAD 83

| | | |



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Plotted By: john.lange
Xref: XREF1
Image:

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DRAWN: _____
DESIGNED: _____
CHECKED: _____
CHECKED: _____

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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION — NORFOLK, VIRGINIA

CONTRACT N62470-02-D-3260 — TASK ORDER NO. 055

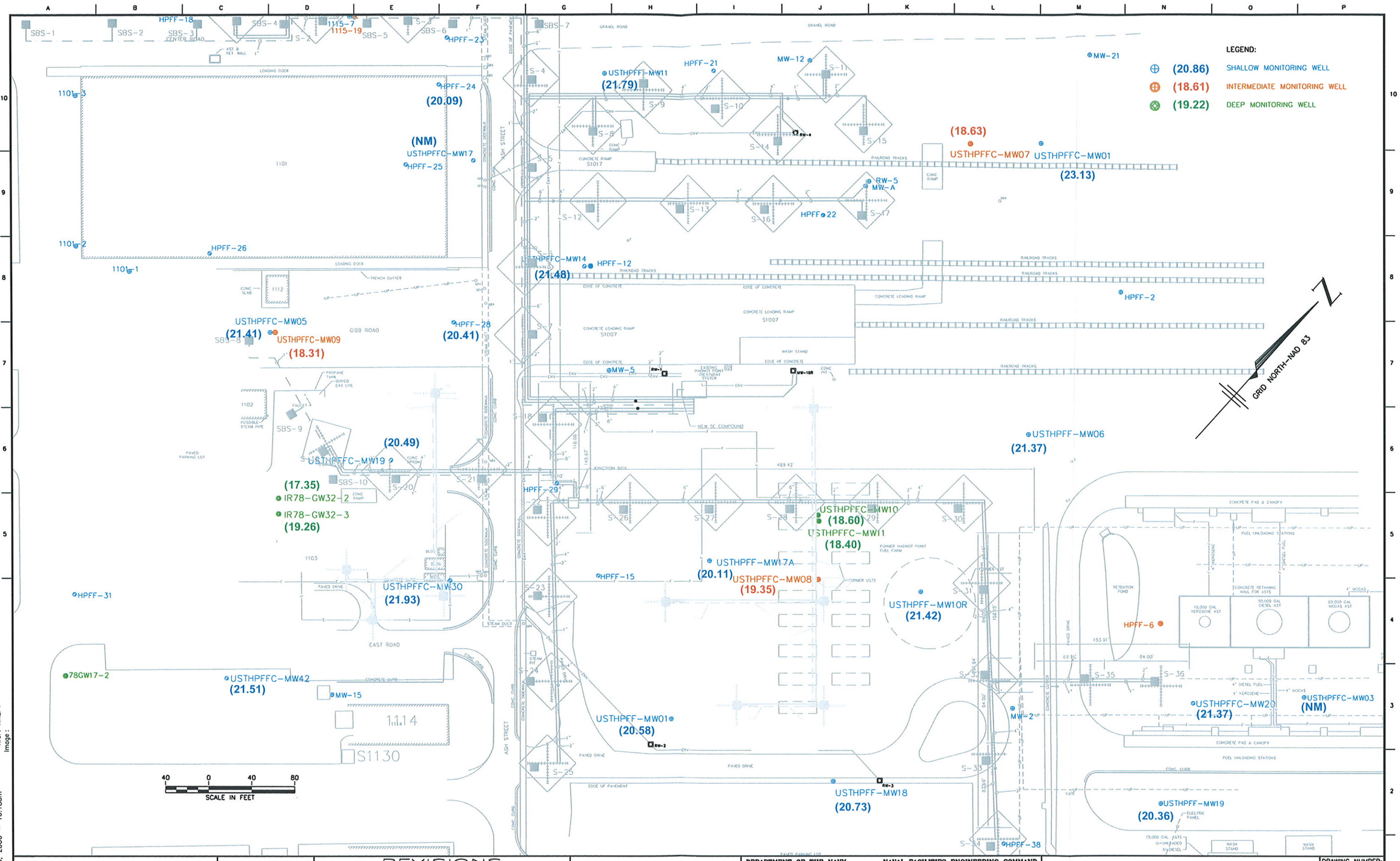
ROJECT No. 117407 — MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.2
GROUNDWATER ELEVATIONS
AUGUST, 2005
HPFF NORTH WEST

DRAWING NUMBER:

SHEET NUMBER: of

DATE: 1/24/06



File: Y:\LEJEUNE-6-05\RAC_IV\HPFF OPERATION AND MAINT\2005_AMR\GW_ELEV_SE-APR-2005.dwg
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Xref: XREF1
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SUBMITTED: _____ PROJECT MANAGER: _____ DATE: _____
APPROVED: _____ SR. PROJECT ENGINEER _____ DATE: _____
APPROVED: _____ DEPT. MANAGER _____ DATE: _____

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: _____
DESIGNED: _____
CHECKED: _____
CHECKED: _____

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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION — NORFOLK, VIRGINIA

CONTRACT N62470-02-D-3260 — TASK ORDER NO. 055

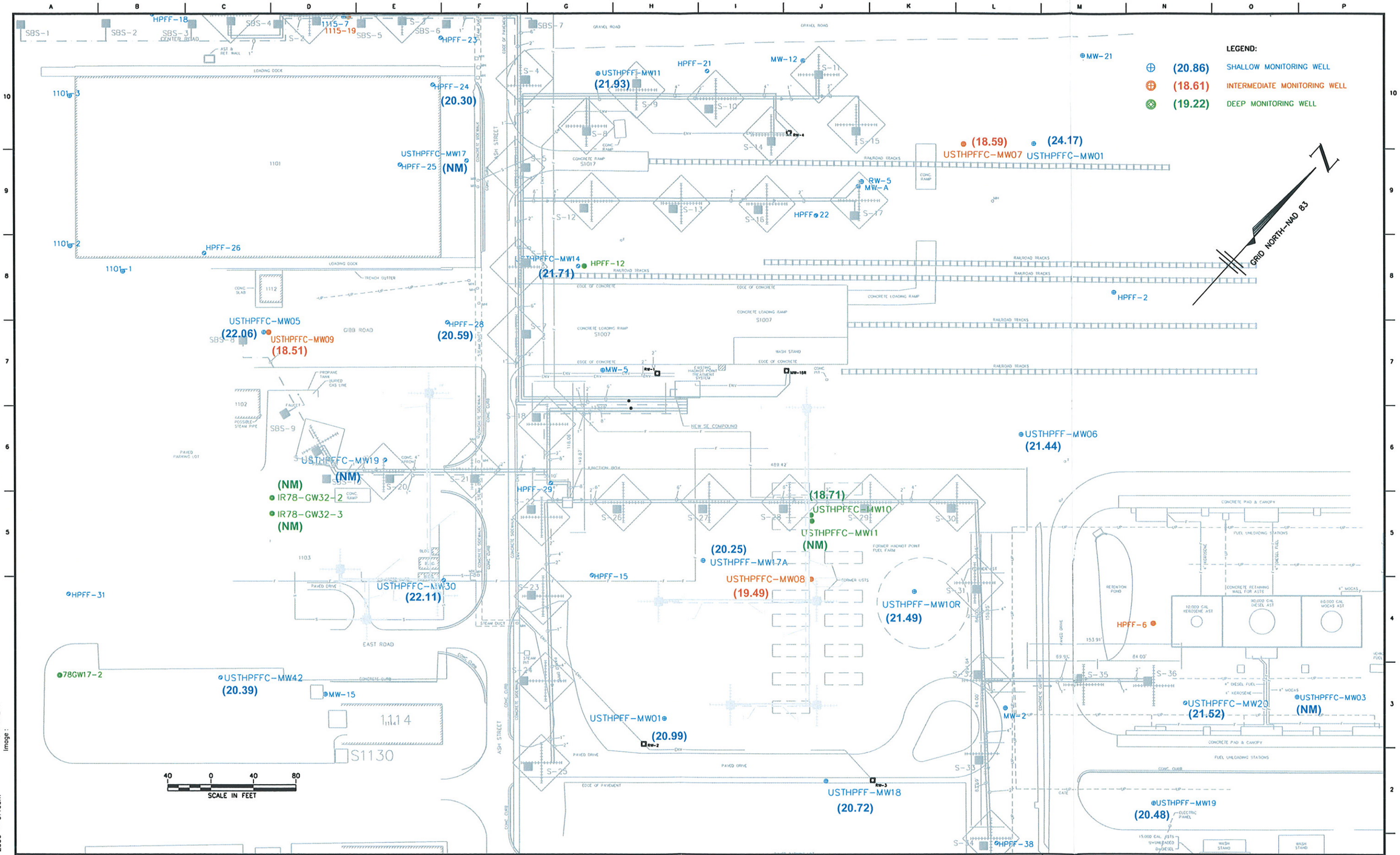
PROJECT No. 117407 — MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.3
GROUNDWATER ELEVATIONS MARCH, 2005 HPFF SOUTH EAST

DRAWING NUMBER:

SHEET NUMBER: of

DATE: 1/24/06



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Xref: XREF1
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Shaw
Shaw Environmental, Inc.

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

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
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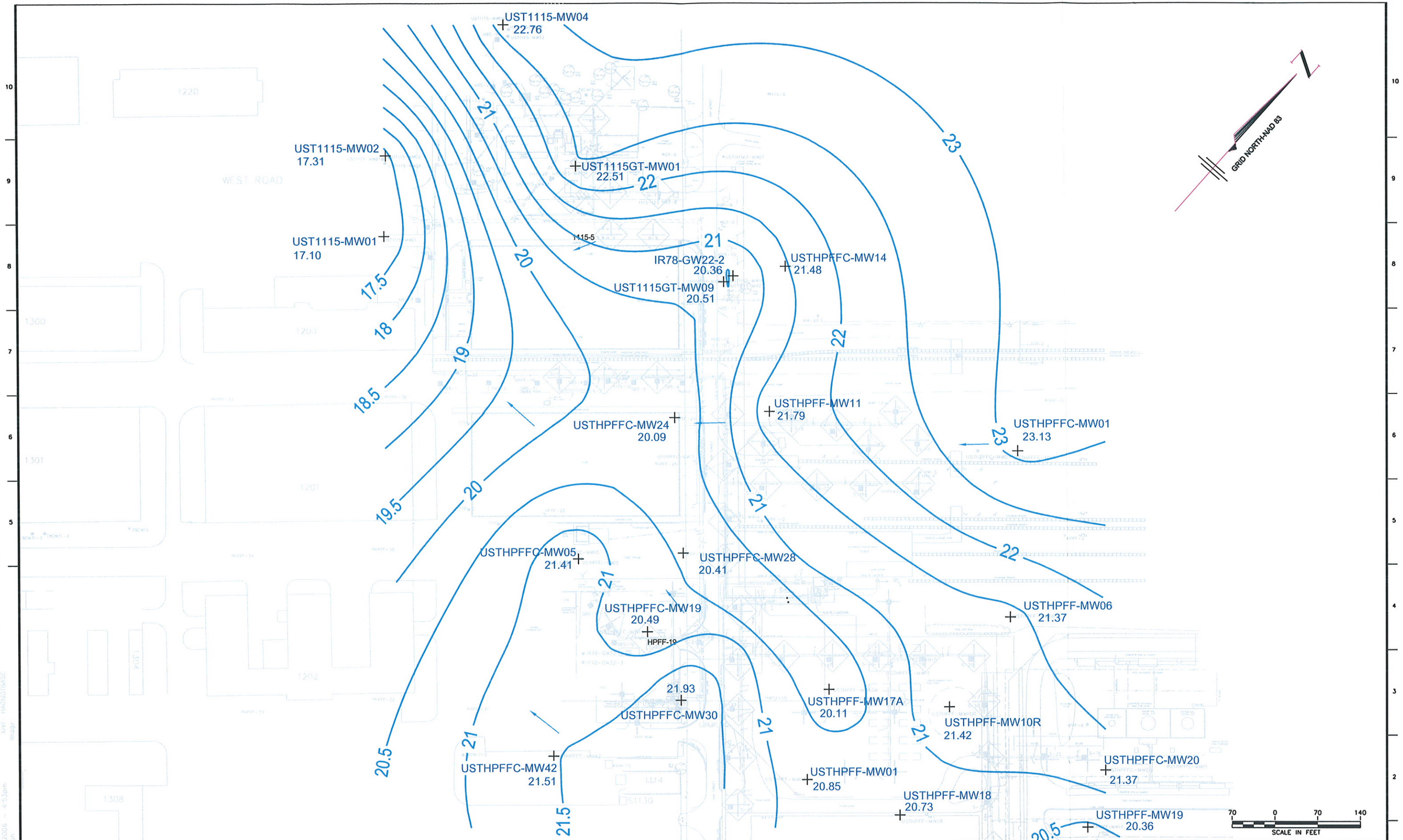
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ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.4
GROUNDWATER ELEVATIONS
AUGUST, 2005
HPFF SOUTH EAST

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 1/25/06



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

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: _____
DESIGNED: _____
CHECKED: _____
CHECKED: _____

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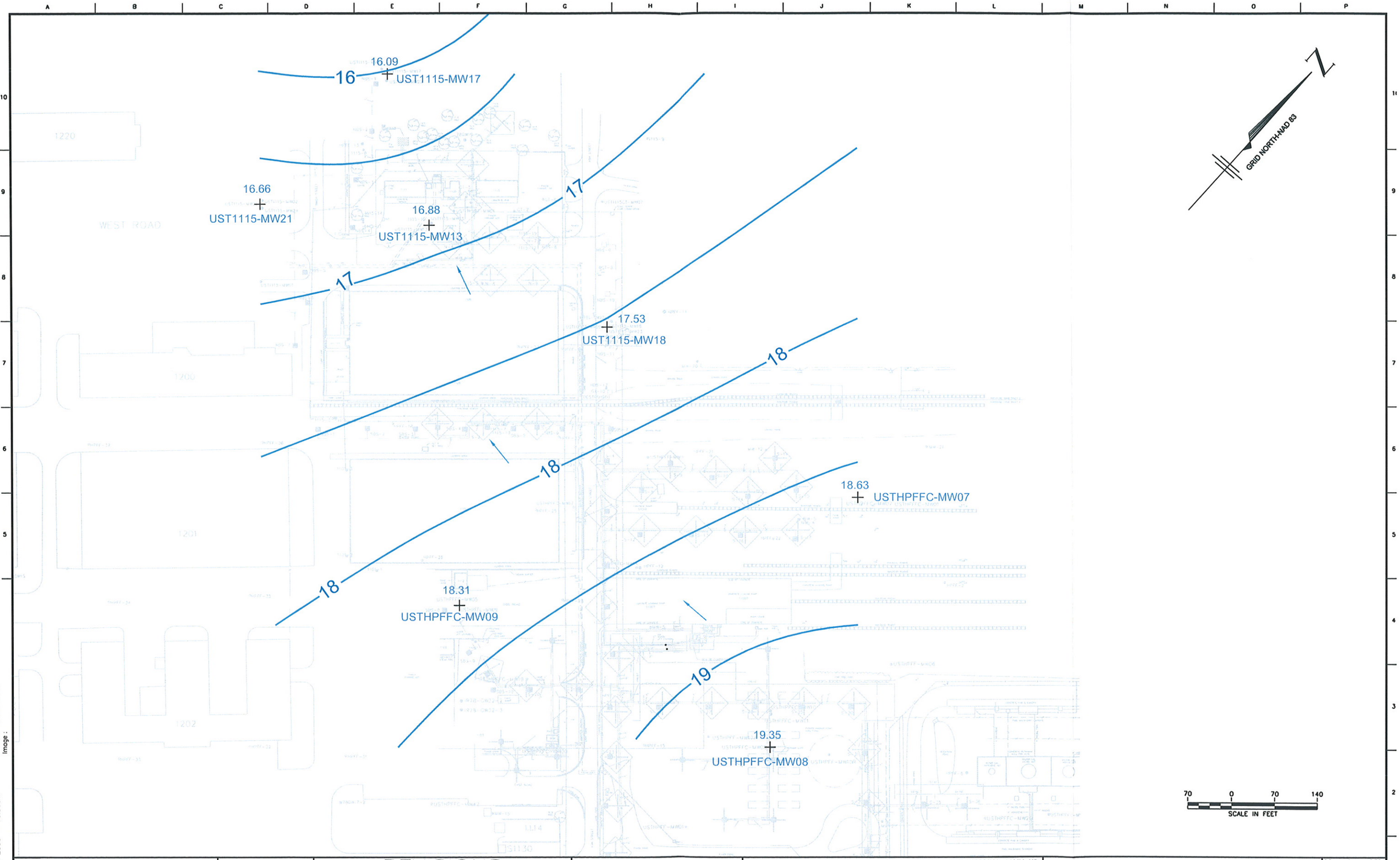
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

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ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.5A
SHALLOW GROUNDWATER ELEVATION MAP
MARCH 2005
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 1/24/06

File: Z:\LEJEUNE-6-05\RAC_IV\HPFF OPERATION AND MAINT\2005_AMR\SHAL_GW_CONT_MAR_2005.dwg
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Plotted By: Angela N Morgan



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Xref :
Image :

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

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: _____
DESIGNED: _____
CHECKED: _____
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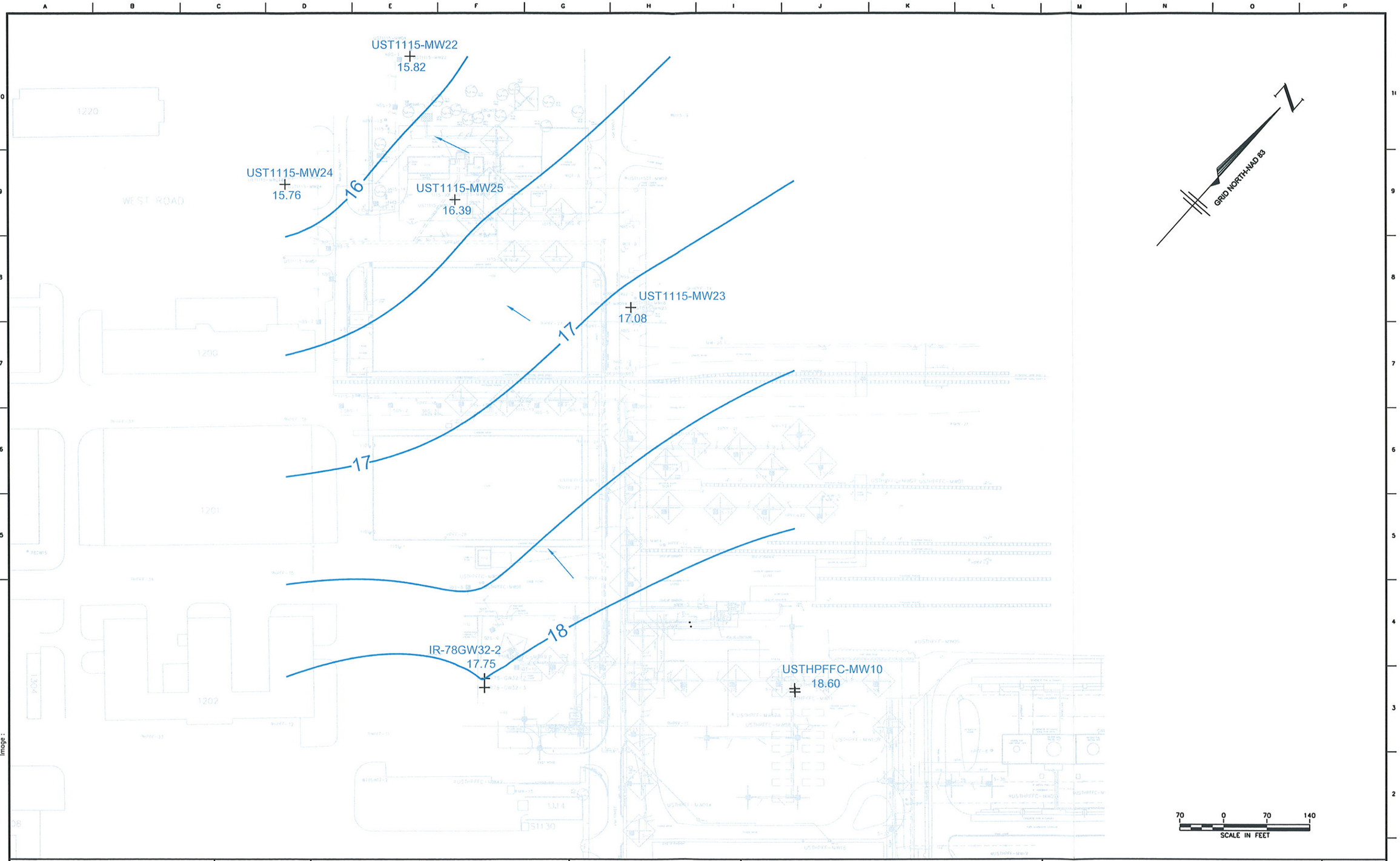
REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.5B
INTERMEDIATE GROUNDWATER ELEVATION MAP
MARCH 2005
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 1/24/05



File: Y:\LEJEUNE-6-05\RAC_IV\HPFF OPERATION AND MAINT\2005_AMR\DEEP_GW_CONT-MAR-2005.dwg
Plot Date/Time: Apr 20, 2006 - 10:36am
Plotted By: john.lange
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Shaw
Shaw Environmental, Inc.

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

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: _____
DESIGNED: _____
CHECKED: _____
CHECKED: _____

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NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.5C
DEEP GROUNDWATER ELEVATION MAP
MARCH 2005
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 1/24/06

UST1115-MW04
23.83

UST1115-MW02
17.46

UST1115GT-MW01
17.63

UST1115-MW01
17.96

USTHPFFC-MW14
21.71

UST1115GT-MW09
21.15

IR78-GW22-2
20.87

USTHPFFC-MW24
20.30

USTHPFF-MW11
21.93

USTHPFFC-MW01
24.17

USTHPFFC-MW05
22.06

USTHPFFC-MW28
20.59

USTHPFF-MW06
21.44

USTHPFF-MW17A
20.25

USTHPFF-MW10R
21.49

USTHPFFC-MW30
22.11

USTHPFFC-MW42
21.60

USTHPFFC-MW20
21.59

USTHPFF-MW01
20.99

USTHPFF-MW18
20.77

USTHPFF-MW19
20.48

20 19 18 18.5 19 19.5 20 20.5 21 21 20 21 22 23 24 23.5 23 22 22.5 21 21.5 22 21 20.5 21

GRID NORTH-NAD 83

70 0 70 140
SCALE IN FEET

Shaw
Shaw Environmental, Inc.

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

AT FULL SCALE
(IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: _____
DESIGNED: _____
CHECKED: _____
CHECKED: _____

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ZONE	REV.	DESCRIPTION	BY	DATE	APP.

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ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

CONTRACT N62470-02-D-3260 TASK ORDER NO. 055

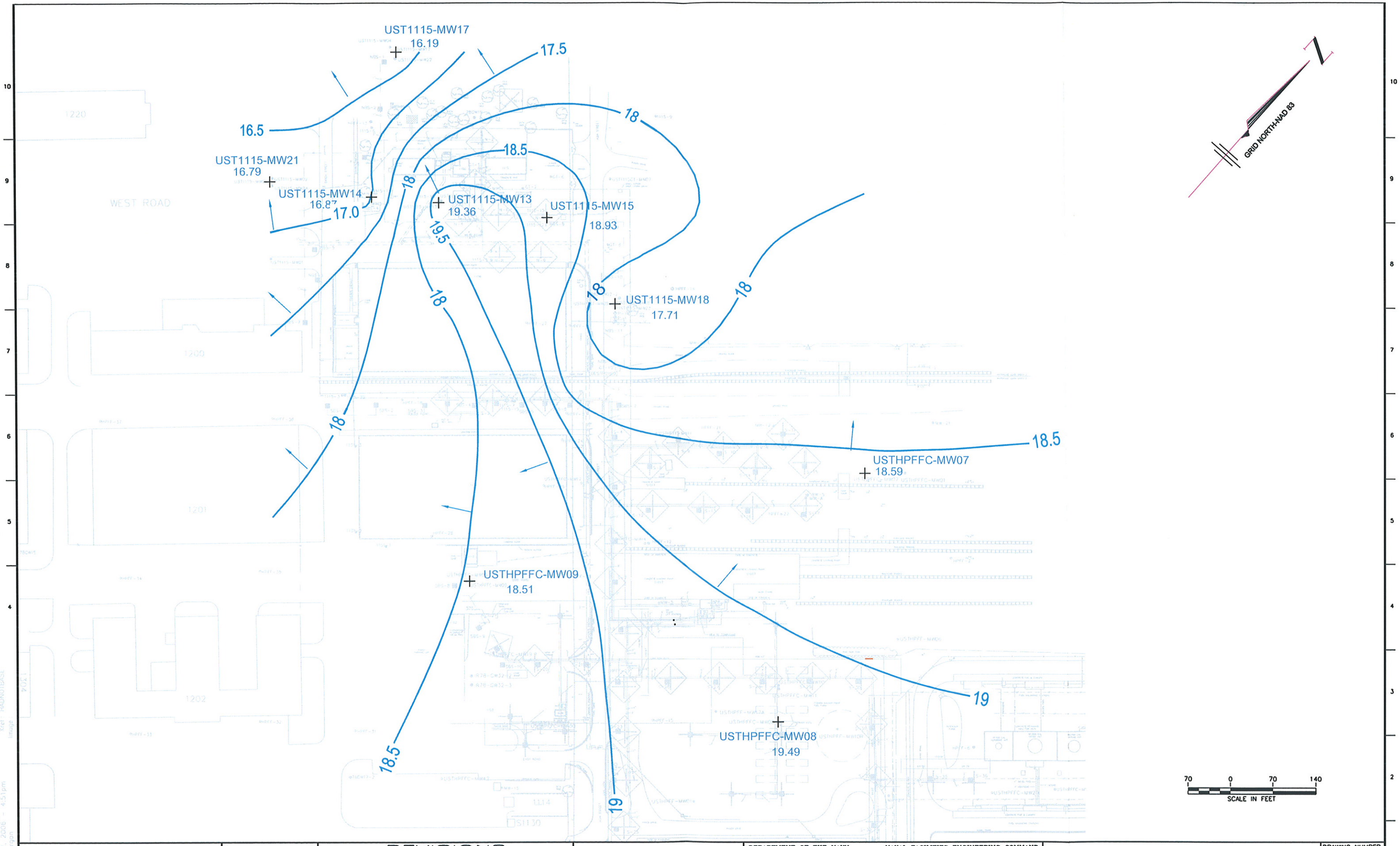
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.6A
SHALLOW GROUNDWATER ELEVATION MAP
AUGUST 2005
HADNOT POINT FUEL FARM

DRAWING NUMBER:

SHEET NUMBER: of

DATE: 1/24/06



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

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
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CHECKED: _____

REVISIONS

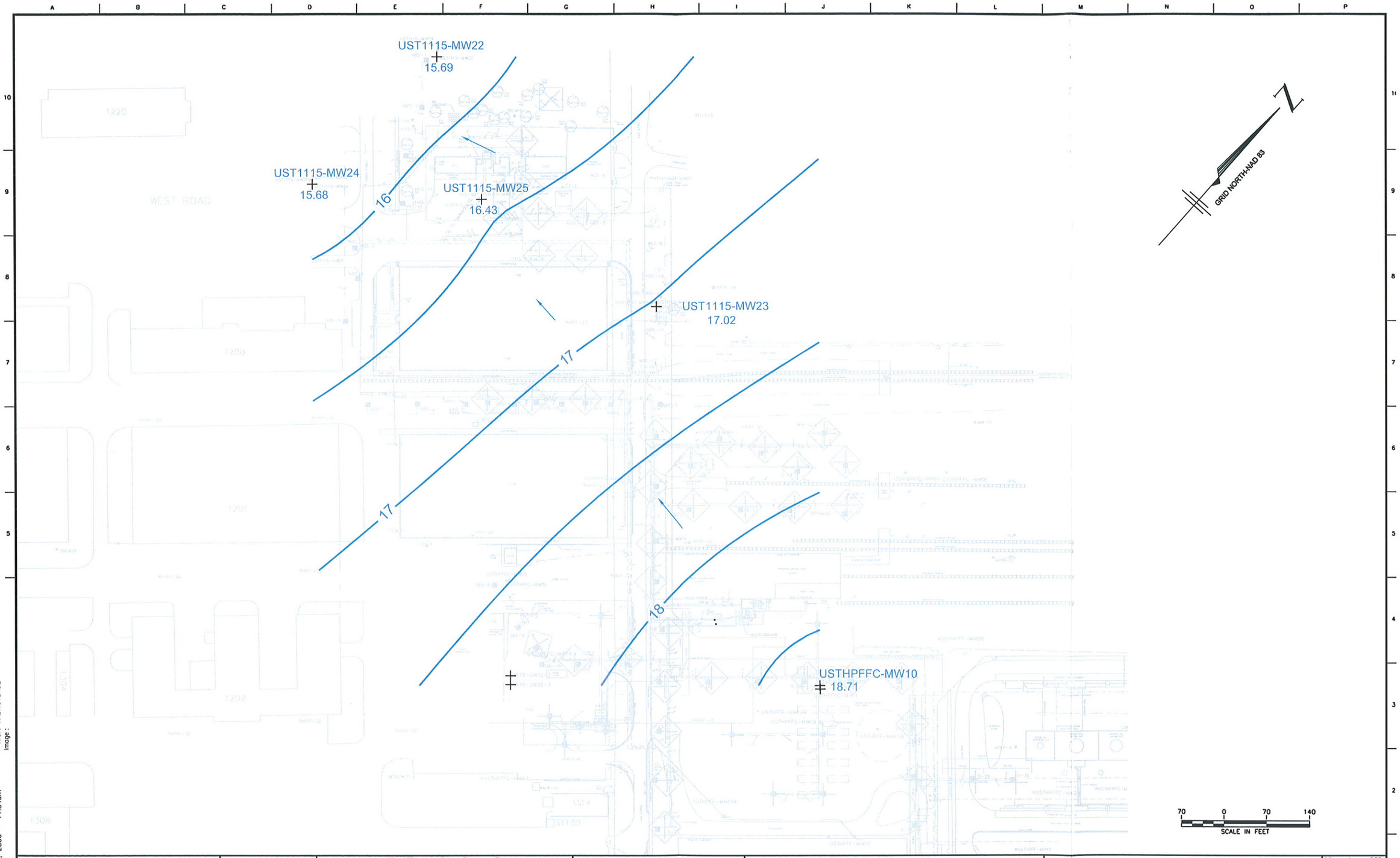
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ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.6B
INTERMEDIATE GROUNDWATER ELEVATION MAP
AUGUST 2005
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 1/24/05

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Xref: HADNOTBASE
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Shaw
Shaw Environmental, Inc.

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APPROVED: _____ DEPT. MANAGER: _____ DATE: _____

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: _____
DESIGNED: _____
CHECKED: _____
CHECKED: _____

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ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4.6C
DEEP GROUNDWATER ELEVATION MAP
AUGUST 2005
HADNOT POINT FUEL FARM

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 1/24/06

UST1115-MW04	2/25/04	8/19/04	3/10/05	8/18/05
BENZENE	**16.8**	**31.5**	**42.7**	0.63J
ETHYLBENZENE	<1.0	<1.0	<1.0	<1.0
TOLUENE	<1.0	1.1	0.55J	1.6
XYLENES	<3.0	<3.0	<3.0	<3.0
NAPHTHALENE	<5.4	<4.8	<4.8	<1.9

UST1115-MW17	2/25/04	8/19/04	3/10/05	8/19/04
BENZENE	**36.9**	**34.1**	**72.3**	**9.5**
ETHYLBENZENE	3.5	<2.0	<5.0	<1.0
TOLUENE	2.5	1.4J	<5.0	<1.0
XYLENES	<6.0	2.9J	<15	2.4J
NAPHTHALENE	**89.8**	10.5	4.8	4.4

UST1115-MW02	2/25/04	8/19/04	3/22/05	8/18/05
BENZENE	**10.9**	**24.3**	**31.1**	<1.0
ETHYLBENZENE	<1.0	<1.0	<1.0	<1.0
TOLUENE	<1.0	0.52J	3.3	<1.0
XYLENES	<3.0	<3.0	<3.0	<3.0
NAPHTHALENE	<5.3	<4.8	<4.8	<1.9

UST1115-MW22	2/25/04	8/19/04	3/10/05	8/18/05
BENZENE	**2230**	**3270**	**2,850**	**3,380**
ETHYLBENZENE	<50	<50	<20	<50
TOLUENE	<50	<50	20.3	32.4J
XYLENES	<150	<150	<60	<150
NAPHTHALENE	3.2J	5.7	4.0J	2.8

UST1115GT-MW01	2/21/04	8/25/04	3/24/05	8/17/05
BENZENE	**29.7**	**44.7**	**35.8**	**268**
ETHYLBENZENE	10.5	5.5	6.8	6.8
TOLUENE	2.7	8.6	1.8	2.7J
XYLENES	8.3	4.4	3.7	<15
NAPHTHALENE	<5.4	10.7	<4.8	6.5

UST1115-MW21	2/25/04	8/19/04	3/10/05	8/18/05
BENZENE	**607**	**521**	**338**	**282**
ETHYLBENZENE	<5.0	<10	<1.0	<5.0
TOLUENE	<5.0	<10	<1.0	<5.0
XYLENES	<15.0	<30	<3.0	<15
NAPHTHALENE	3.9J	5.3	2.9J	2.5

UST1115GT-MW07	2/21/04	8/19/04	3/24/05	8/17/05
BENZENE	0.74J	**37.9**	**11.0**	**22.7**
ETHYLBENZENE	<1.0	1.5	<1.0	<1.0
TOLUENE	0.78J	8.20	2.2	<1.0
XYLENES	<3.0	4.4	1.2J	<3.0
NAPHTHALENE	<5.3	<4.8	<4.8	<1.9

UST1115-MW24	2/25/04	8/19/04	3/10/05	8/18/05
BENZENE	**4100**	**3630**	**1030**	**3120**
ETHYLBENZENE	<50	<50	<20	<50
TOLUENE	<50	<50	23.2	<50
XYLENES	<150	<150	<60	<150
NAPHTHALENE	4.2J	3.0J	<4.8	<1.9

UST1115GT-MW09	2/24/04	8/27/04	3/22/05	8/17/05
BENZENE	<1.0	**3.2**	<1.0	<1.0
ETHYLBENZENE	<1.0	<1.0	<1.0	<1.0
TOLUENE	<1.0	0.76J	<1.0	<1.0
XYLENES	<3.0	<3.0	<3.0	<3.0
NAPHTHALENE	<5.6	<4.8	<4.8	<1.9

IR78-GW22-2	2/21/04	8/19/04	3/24/05	8/18/05
BENZENE	**6.6**	**6.4**	**78.5**	**4.7**
ETHYLBENZENE	<1.0	<1.0	1.4	<1.0
TOLUENE	<1.0	<1.0	12.6	<1.0
XYLENES	<3.0	<3.0	6.3	<3.0
NAPHTHALENE	<5.4	<4.8	<4.8	<1.9

UST1115-MW01	2/21/04	8/19/04	3/24/05	8/18/05
BENZENE	<1.0	**17.7**	**3.8**	<1.0
ETHYLBENZENE	<1.0	0.92J	<1.0	<1.0
TOLUENE	1.0	4.6	0.71J	<1.0
XYLENES	<3.0	2.9J	<3.0	<3.0
NAPHTHALENE	<5.1	<4.8	<4.8	<1.9

UST1115-MW13	2/24/04	8/25/04	3/22/05	8/17/05
BENZENE	**228**	**202**	**82.1**	**61.6**
ETHYLBENZENE	**53.0**	**47.6**	**36.3**	**31.2**
TOLUENE	<5.0	11.8	<0.67J	<10
XYLENES	11.7J	16.3	11.8	<30
NAPHTHALENE	**151**	**173**	**129.0**	**108**

UST1115-MW25	2/24/04	8/25/04	3/22/05	8/17/05
BENZENE	**3580**	**5960**	**5170**	**4990**
ETHYLBENZENE	<50	**40.4J**	**47.3J**	**58.3**
TOLUENE	362	650	418	678
XYLENES	63.2J	120J	157	216
NAPHTHALENE	<5.0	<4.8	3.3J	1.1J

UST1115-MW18	3/02/04	8/19/04	3/22/05	8/18/05
BENZENE	**2630**	NS	**9.6J**	NS
ETHYLBENZENE	**76.8**	NS	4.6	NS
TOLUENE	5.6	NS	2.0	NS
XYLENES	15.7	NS	9.6	NS
NAPHTHALENE	19.8	NS	<4.8	NS

UST1115-MW23	2/21/04	8/19/04	3/24/05	8/17/05
BENZENE	**703**	**2720**	**3,120**	**5,240**
ETHYLBENZENE	14.8J	**38.6**	**54.3**	**91.7J**
TOLUENE	98.7	267	346	653
XYLENES	35.9J	112	208	315
NAPHTHALENE	<5.3	<4.8	<4.8	1.7J

LEGEND:

- SHALLOW WELL ANALYTICAL RESULTS
- INTERMEDIATE WELL ANALYTICAL RESULTS
- DEEP WELL ANALYTICAL RESULTS

BOLD INDICATES NCGQS EXCEEDENCE

ALL RESULTS IN UG/L

GRID NORTH-NAD 83

UST1115-MW04 UST1115-MW17 UST1115-MW22 UST1115-MW02 UST1115-MW21 UST1115-MW24 UST1115-MW01 UST1115-MW13 UST1115-MW25 UST1115-MW18 UST1115GT-MW01 UST1115GT-MW07 UST1115GT-MW09 UST1115-MW23 IR78-GW22-2 HPFF-13 HPFF-14 HPFF-16 HPFF-27 1115-6 1115-9 1115-10 1115-11 1115-12 1115-14 1115-15 NBS-1 NBS-2 NBS-3 NBS-4 NBS-5 NBS-6 NBS-7 NBS-8 NBS-9 NBS-10 NBS-11 NBS-12 GT-1 GT-2 GT-3 GT-4 GT-5 GT-6 GT-7 GT-8 GT-10 (DESTROYED) P-1R P-1 P-2 MW-20 N-1 N-2 N-4 N-5 N-6 N-7 N-8 N-9

BIRCH STREET ASH STREET PAVED PARKING LOT PAVED DRIVE CONCRETE PAD CONCRETE APRON CONCRETE SIDEWALK CONC CURB GRASS GRAVEL ROAD GATE STEAM DUCT WEST ROAD LOADING DOCK CONC RAMP TRENCH GUTTER MATCHLINE JOINS SHEET HAZMAT BLDG 1111 1100 1115 1108 1200

30 0 30 60
SCALE IN FEET

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Plot Date/Time: Apr 20, 2006 - 12:00pm
Plotted By: john.lange
Xref: XREF1
Image:

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

AT FULL SCALE (IF NOT 1"=SCALE ACCORDINGLY)
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DESIGNED: _____
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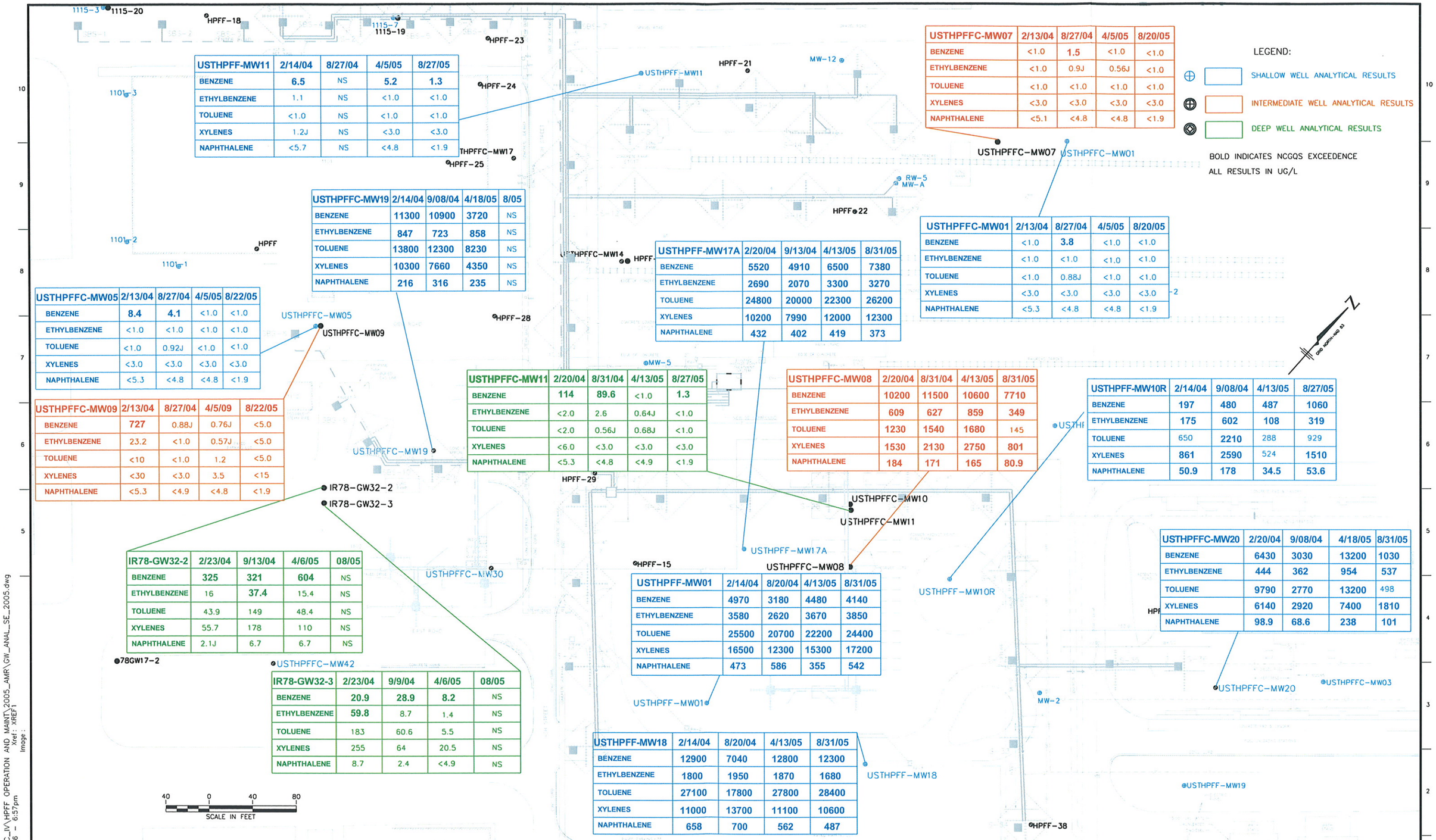
REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 DELIVERY ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 4-7
GROUNDWATER ANALYTICAL RESULTS
BUILDING 1115
HADNOT POINT NORTH WEST

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 01/24/06



USTHPFF-MW11	2/14/04	8/27/04	4/5/05	8/27/05
BENZENE	6.5	NS	5.2	1.3
ETHYLBENZENE	1.1	NS	<1.0	<1.0
TOLUENE	<1.0	NS	<1.0	<1.0
XYLENES	1.2J	NS	<3.0	<3.0
NAPHTHALENE	<5.7	NS	<4.8	<1.9

USTHPFFC-MW07	2/13/04	8/27/04	4/5/05	8/20/05
BENZENE	<1.0	1.5	<1.0	<1.0
ETHYLBENZENE	<1.0	0.9J	0.56J	<1.0
TOLUENE	<1.0	<1.0	<1.0	<1.0
XYLENES	<3.0	<3.0	<3.0	<3.0
NAPHTHALENE	<5.1	<4.8	<4.8	<1.9

LEGEND:

SHALLOW WELL ANALYTICAL RESULTS

INTERMEDIATE WELL ANALYTICAL RESULTS

DEEP WELL ANALYTICAL RESULTS

BOLD INDICATES NCGQS EXCEEDENCE

ALL RESULTS IN UG/L

USTHPFFC-MW19	2/14/04	9/08/04	4/18/05	8/05
BENZENE	11300	10900	3720	NS
ETHYLBENZENE	847	723	858	NS
TOLUENE	13800	12300	8230	NS
XYLENES	10300	7660	4350	NS
NAPHTHALENE	216	316	235	NS

USTHPFFC-MW01	2/13/04	8/27/04	4/5/05	8/20/05
BENZENE	<1.0	3.8	<1.0	<1.0
ETHYLBENZENE	<1.0	<1.0	<1.0	<1.0
TOLUENE	<1.0	0.88J	<1.0	<1.0
XYLENES	<3.0	<3.0	<3.0	<3.0
NAPHTHALENE	<5.3	<4.8	<4.8	<1.9

USTHPFF-MW17A	2/20/04	9/13/04	4/13/05	8/31/05
BENZENE	5520	4910	6500	7380
ETHYLBENZENE	2690	2070	3300	3270
TOLUENE	24800	20000	22300	26200
XYLENES	10200	7990	12000	12300
NAPHTHALENE	432	402	419	373

USTHPFFC-MW05	2/13/04	8/27/04	4/5/05	8/22/05
BENZENE	8.4	4.1	<1.0	<1.0
ETHYLBENZENE	<1.0	<1.0	<1.0	<1.0
TOLUENE	<1.0	0.92J	<1.0	<1.0
XYLENES	<3.0	<3.0	<3.0	<3.0
NAPHTHALENE	<5.3	<4.8	<4.8	<1.9

USTHPFFC-MW09	2/13/04	8/27/04	4/5/09	8/22/05
BENZENE	727	0.88J	0.76J	<5.0
ETHYLBENZENE	23.2	<1.0	0.57J	<5.0
TOLUENE	<10	<1.0	1.2	<5.0
XYLENES	<30	<3.0	3.5	<15
NAPHTHALENE	<5.3	<4.9	<4.8	<1.9

USTHPFFC-MW11	2/20/04	8/31/04	4/13/05	8/27/05
BENZENE	114	89.6	<1.0	1.3
ETHYLBENZENE	<2.0	2.6	0.64J	<1.0
TOLUENE	<2.0	0.56J	0.68J	<1.0
XYLENES	<6.0	<3.0	<3.0	<3.0
NAPHTHALENE	<5.3	<4.8	<4.9	<1.9

USTHPFFC-MW08	2/20/04	8/31/04	4/13/05	8/31/05
BENZENE	10200	11500	10600	7710
ETHYLBENZENE	609	627	859	349
TOLUENE	1230	1540	1680	145
XYLENES	1530	2130	2750	801
NAPHTHALENE	184	171	165	80.9

USTHPFF-MW10R	2/14/04	9/08/04	4/13/05	8/27/05
BENZENE	197	480	487	1060
ETHYLBENZENE	175	602	108	319
TOLUENE	650	2210	288	929
XYLENES	861	2590	524	1510
NAPHTHALENE	50.9	178	34.5	53.6

USTHPFFC-MW20	2/20/04	9/08/04	4/18/05	8/31/05
BENZENE	6430	3030	13200	1030
ETHYLBENZENE	444	362	954	537
TOLUENE	9790	2770	13200	498
XYLENES	6140	2920	7400	1810
NAPHTHALENE	98.9	68.6	238	101

IR78-GW32-2	2/23/04	9/13/04	4/6/05	08/05
BENZENE	325	321	604	NS
ETHYLBENZENE	16	37.4	15.4	NS
TOLUENE	43.9	149	48.4	NS
XYLENES	55.7	178	110	NS
NAPHTHALENE	2.1J	6.7	6.7	NS

IR78-GW32-3	2/23/04	9/9/04	4/6/05	08/05
BENZENE	20.9	28.9	8.2	NS
ETHYLBENZENE	59.8	8.7	1.4	NS
TOLUENE	183	60.6	5.5	NS
XYLENES	255	64	20.5	NS
NAPHTHALENE	8.7	2.4	<4.9	NS

USTHPFF-MW01	2/14/04	8/20/04	4/13/05	8/31/05
BENZENE	4970	3180	4480	4140
ETHYLBENZENE	3580	2620	3670	3850
TOLUENE	25500	20700	22200	24400
XYLENES	16500	12300	15300	17200
NAPHTHALENE	473	586	355	542

USTHPFF-MW18	2/14/04	8/20/04	4/13/05	8/31/05
BENZENE	12900	7040	12800	12300
ETHYLBENZENE	1800	1950	1870	1680
TOLUENE	27100	17800	27800	28400
XYLENES	11000	13700	11100	10600
NAPHTHALENE	658	700	562	487

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REVISIONS

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DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINIA

CONTRACT N62470-02-D-3620 DELIVERY ORDER NO. 055

PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

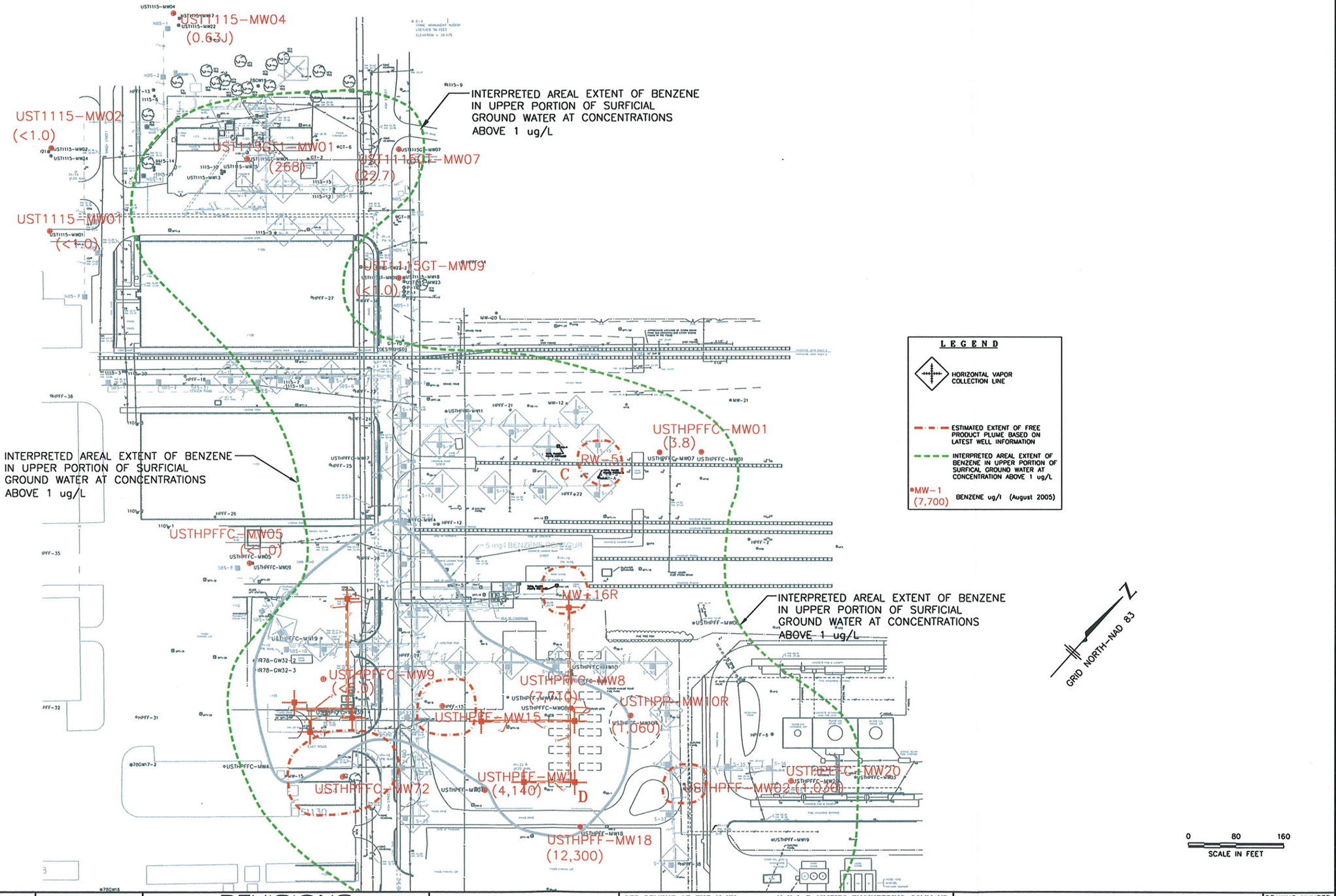
FIGURE 4-8
GROUNDWATER ANALYTICAL RESULTS
FUEL FARM
HADNOT POINT SOUTH EAST

DRAWING NUMBER:

SHEET NUMBER: of

DATE: 1/24/06

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Plotted By: Angela.N.Morgan
Xref: XREF1
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APPROVED: _____ SR. PROJECT ENGINEER _____ DATE: _____
APPROVED: _____ DEPT. MANAGER _____ DATE: _____

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

REVISIONS

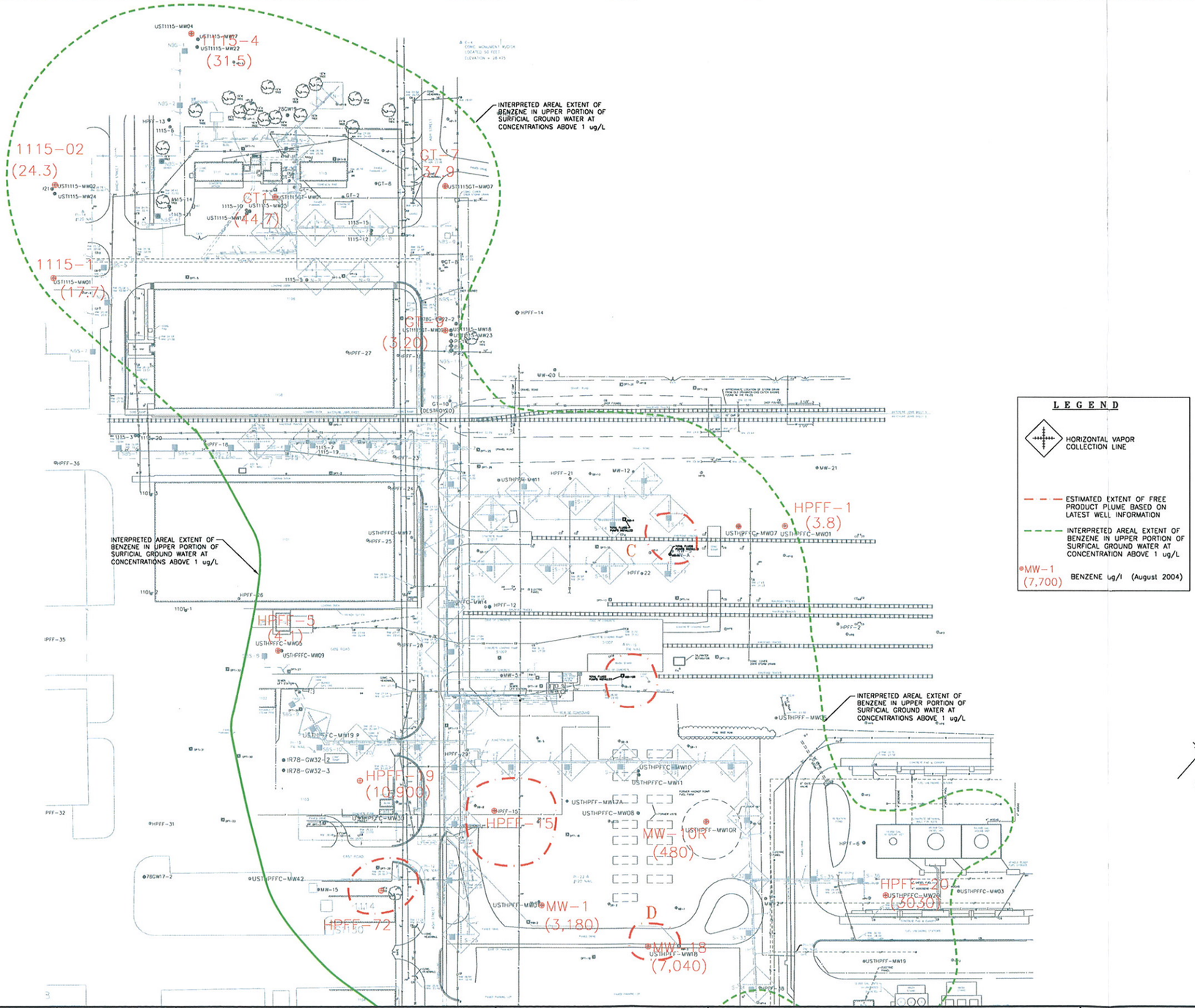
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.1
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER
& FREE PRODUCT CONTAMINATION
AUGUST 2005
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 01/24/06

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Plotted By: Angela.N Morgan Image



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Plotted By: john.longe
Xref: XO1
Image:

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

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

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ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

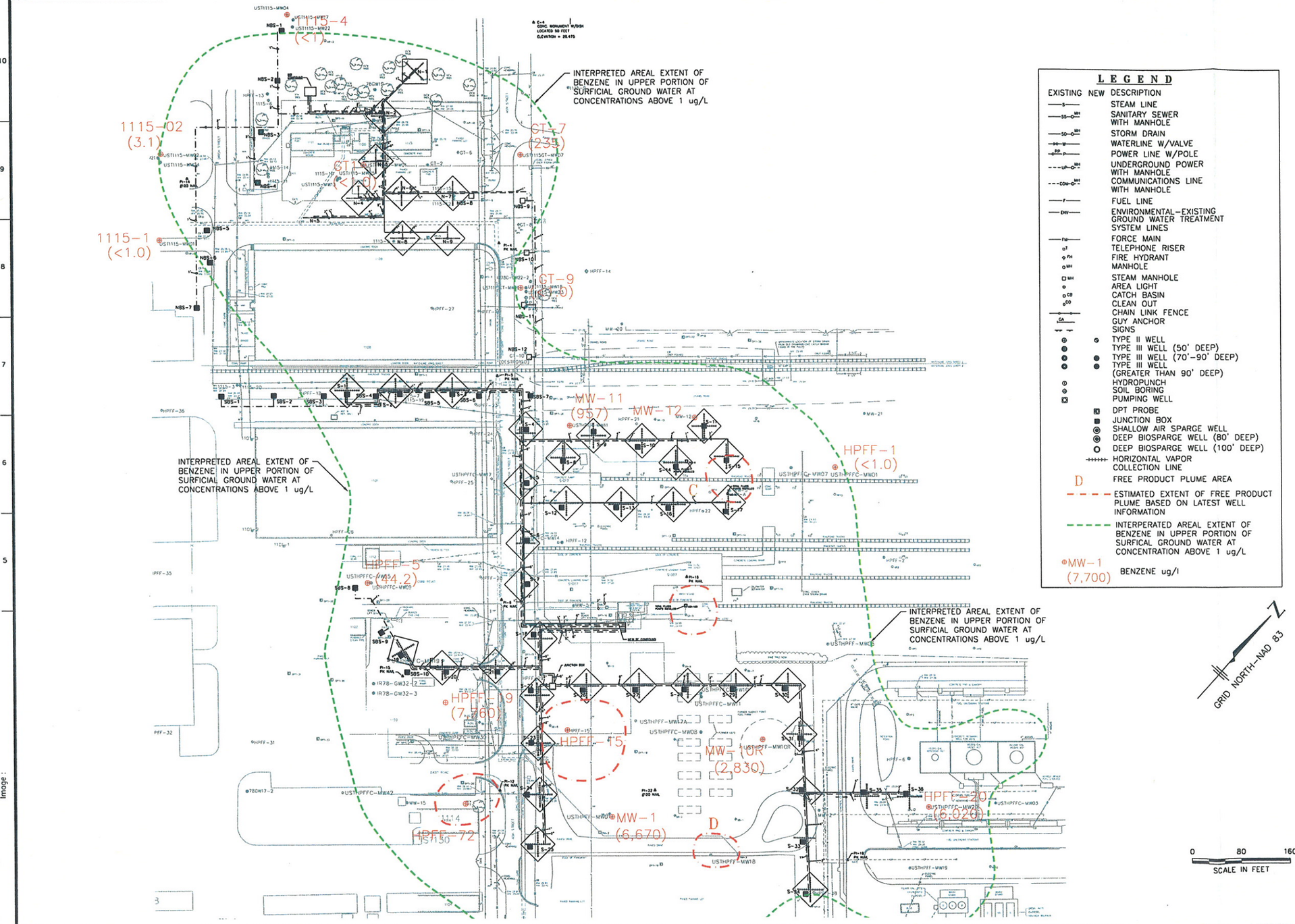
NAVAL STATION NORFOLK, VIRGINIA

CONTRACT N62470-02-D-3260 TASK ORDER NO. 055

PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.2
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER
& FREE PRODUCT CONTAMINATION
AUGUST 2004
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 2/15/06



LEGEND

EXISTING	NEW	DESCRIPTION
		STEAM LINE
		SANITARY SEWER WITH MANHOLE
		STORM DRAIN
		WATERLINE W/VALVE
		POWER LINE W/POLE
		UNDERGROUND POWER WITH MANHOLE
		COMMUNICATIONS LINE WITH MANHOLE
		FUEL LINE
		ENVIRONMENTAL-EXISTING GROUND WATER TREATMENT SYSTEM LINES
		FORCE MAIN
		TELEPHONE RISER
		FIRE HYDRANT
		MANHOLE
		STEAM MANHOLE
		AREA LIGHT
		CATCH BASIN
		CLEAN OUT
		CHAIN LINK FENCE
		GUY ANCHOR
		SIGNS
		TYPE II WELL
		TYPE III WELL (50' DEEP)
		TYPE III WELL (70'-90' DEEP)
		TYPE III WELL (GREATER THAN 90' DEEP)
		HYDROPUNCH
		SOIL BORING
		PUMPING WELL
		DPT PROBE
		JUNCTION BOX
		SHALLOW AIR SPARGE WELL
		DEEP BIOSPARGE WELL (80' DEEP)
		DEEP BIOSPARGE WELL (100' DEEP)
		HORIZONTAL VAPOR COLLECTION LINE
	D	FREE PRODUCT PLUME AREA
		ESTIMATED EXTENT OF FREE PRODUCT PLUME BASED ON LATEST WELL INFORMATION
		INTERPERATED AREAL EXTENT OF BENZENE IN UPPER PORTION OF SURFICAL GROUND WATER AT CONCENTRATION ABOVE 1 ug/L
MW-1 (7,700)		BENZENE ug/l

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APPROVED: _____ SR. PROJECT ENGINEER _____ DATE: _____
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CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION NORFOLK, VIRGINA

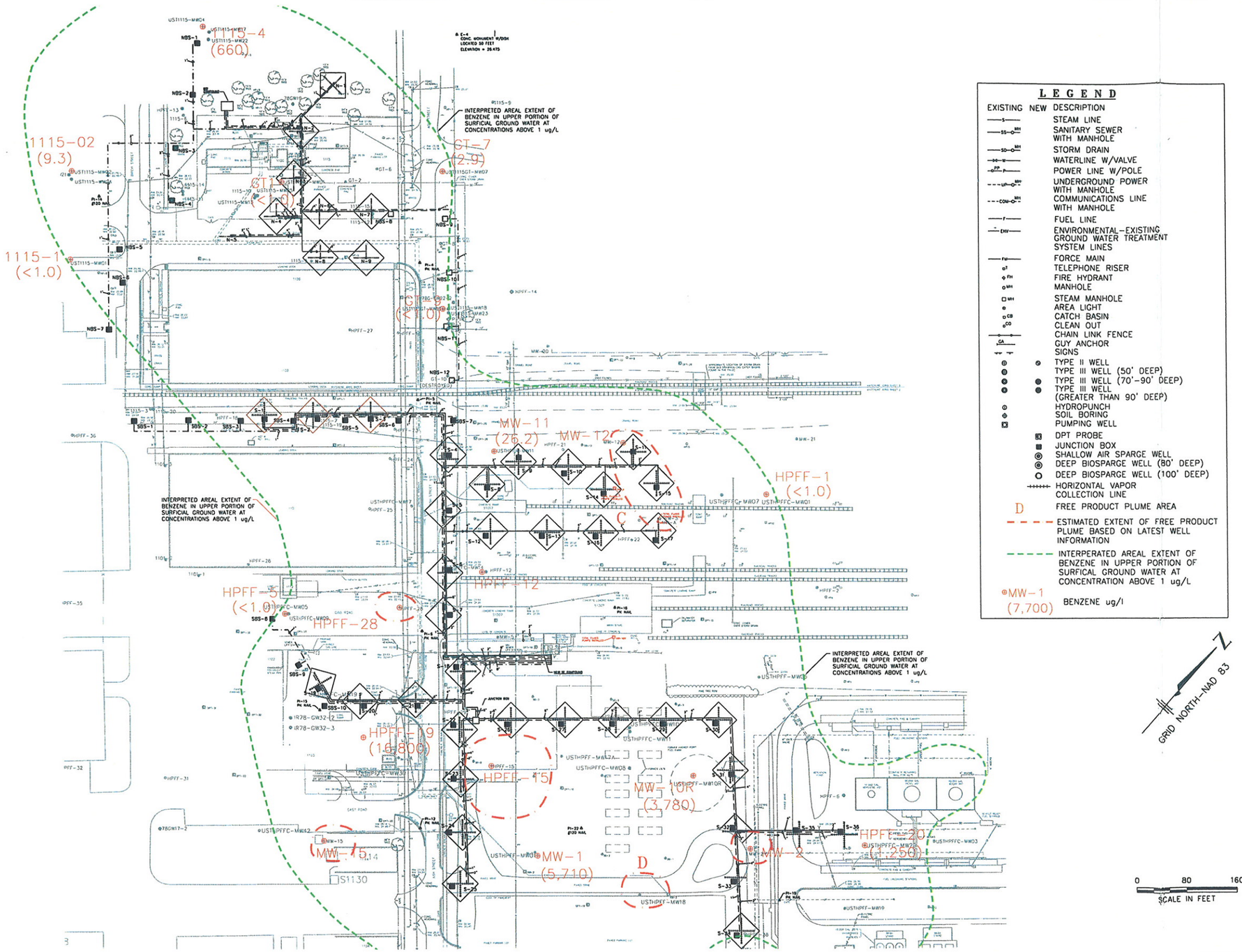
CONTRACT N62470-02-D-3260 TASK ORDER NO. 055

PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.3
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER
& FREE PRODUCT CONTAMINATION
AUGUST 2003
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 2/15/06

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Plot Date/Time: Apr 20, 2006 - 1:52pm
Plotted By: john.lange
Xref: X01
Image:



LEGEND

EXISTING	NEW	DESCRIPTION
—S—		STEAM LINE
—SS—MH		SANITARY SEWER WITH MANHOLE
—SD—MH		STORM DRAIN
—W—		WATERLINE W/VALVE
—PP—		POWER LINE W/POLE
—UP—MH		UNDERGROUND POWER WITH MANHOLE
—CON—MH		COMMUNICATIONS LINE WITH MANHOLE
—F—		FUEL LINE
—ENV—		ENVIRONMENTAL–EXISTING GROUND WATER TREATMENT SYSTEM LINES
—FM—		FORCE MAIN
T		TELEPHONE RISER
FH		FIRE HYDRANT
MH		MANHOLE
MH		STEAM MANHOLE
		AREA LIGHT
CB		CATCH BASIN
CO		CLEAN OUT
		CHAIN LINK FENCE
GA		GUY ANCHOR
		SIGNS
		TYPE II WELL
		TYPE III WELL (50' DEEP)
		TYPE III WELL (70'-90' DEEP)
		TYPE III WELL (GREATER THAN 90' DEEP)
		HYDROPUNCH
		SOIL BORING
		PUMPING WELL
		DPT PROBE
		JUNCTION BOX
		SHALLOW AIR SPARGE WELL
		DEEP BIOSPARGE WELL (80' DEEP)
		DEEP BIOSPARGE WELL (100' DEEP)
		HORIZONTAL VAPOR COLLECTION LINE
	D	FREE PRODUCT PLUME AREA
		ESTIMATED EXTENT OF FREE PRODUCT PLUME BASED ON LATEST WELL INFORMATION
		INTERPERATED AREAL EXTENT OF BENZENE IN UPPER PORTION OF SURFICAL GROUND WATER AT CONCENTRATION ABOVE 1 ug/L
	MW-1 (7,700)	BENZENE ug/l

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

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

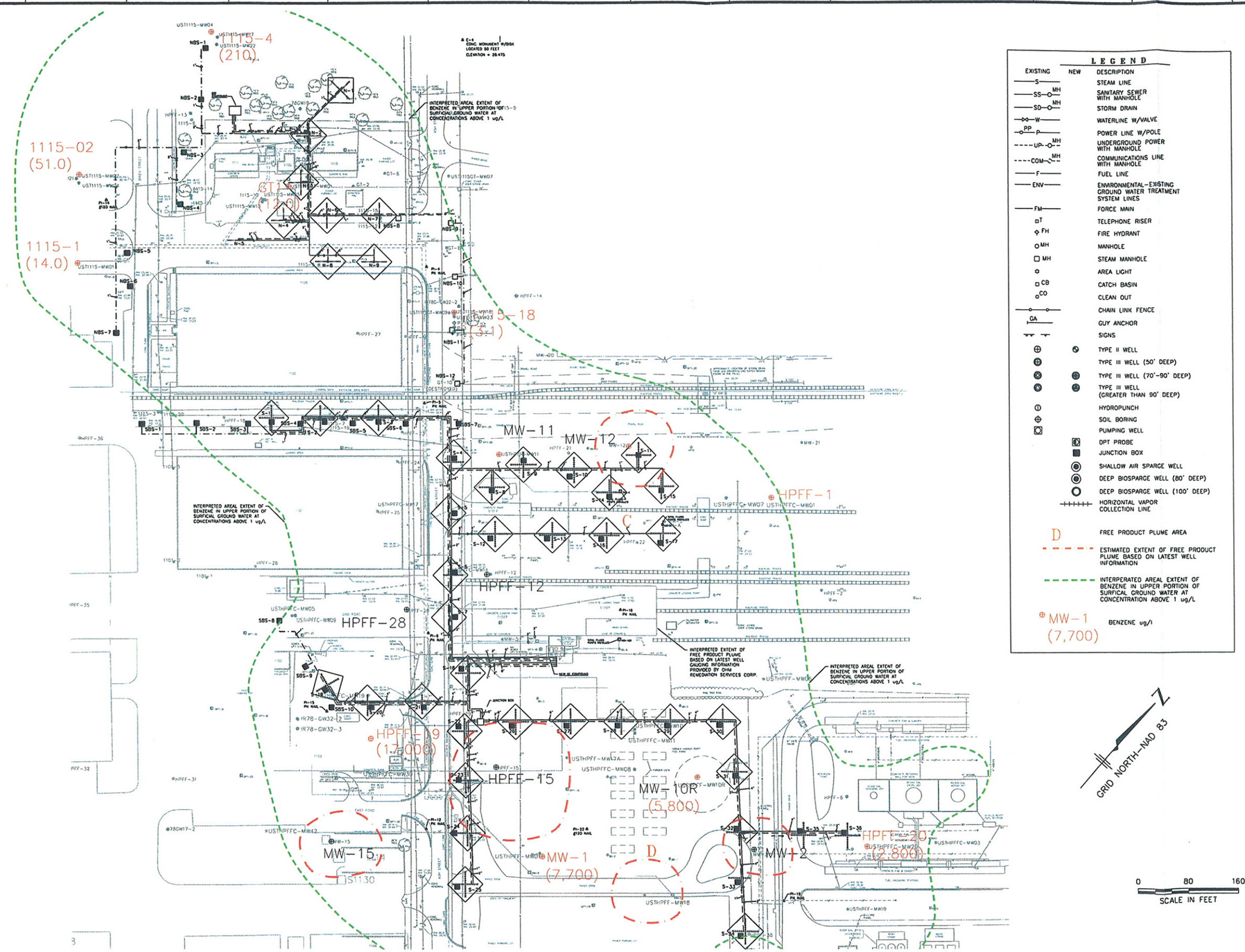
REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION — NORFOLK, VIRGINA
CONTRACT N62470-02-D-3260 — TASK ORDER NO. 055
PROJECT No. 117407 — MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.4
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER
& FREE PRODUCT CONTAMINATION
AUGUST 2002
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 2/15/06



LEGEND

EXISTING	NEW	DESCRIPTION
S		STEAM LINE
SS	MH	SANITARY SEWER WITH MANHOLE
SD	MH	STORM DRAIN
W		WATERLINE W/VALVE
PP	P	POWER LINE W/POLE
UP	MH	UNDERGROUND POWER WITH MANHOLE
COM	MH	COMMUNICATIONS LINE WITH MANHOLE
F		FUEL LINE
ENV		ENVIRONMENTAL-EXISTING GROUND WATER TREATMENT SYSTEM LINES
FM		FORCE MAIN
T		TELEPHONE RISER
FH		FIRE HYDRANT
MH		MANHOLE
MH		STEAM MANHOLE
		AREA LIGHT
CB		CATCH BASIN
CO		CLEAN OUT
		CHAIN LINK FENCE
GA		GUY ANCHOR
		SIGNS
		TYPE II WELL
		TYPE III WELL (50' DEEP)
		TYPE III WELL (70'-90' DEEP)
		TYPE III WELL (GREATER THAN 90' DEEP)
		HYDROPUNCH
		SOIL BORING
		PUMPING WELL
		DPT PROBE
		JUNCTION BOX
		SHALLOW AIR SPARGE WELL
		DEEP BIOSPARGE WELL (80' DEEP)
		DEEP BIOSPARGE WELL (100' DEEP)
		HORIZONTAL VAPOR COLLECTION LINE

D — FREE PRODUCT PLUME AREA

ESTIMATED EXTENT OF FREE PRODUCT PLUME BASED ON LATEST WELL INFORMATION

INTERPRETED AREAL EXTENT OF BENZENE IN UPPER PORTION OF SURFICAL GROUND WATER AT CONCENTRATION ABOVE 1 ug/L

MW-1 (7,700) — BENZENE ug/l

Shaw Environmental, Inc.

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

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: PAUL MATZ
CHECKED: K. MAK
CHECKED: JIM DUNN

REVISIONS

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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION — NORFOLK, VIRGINA

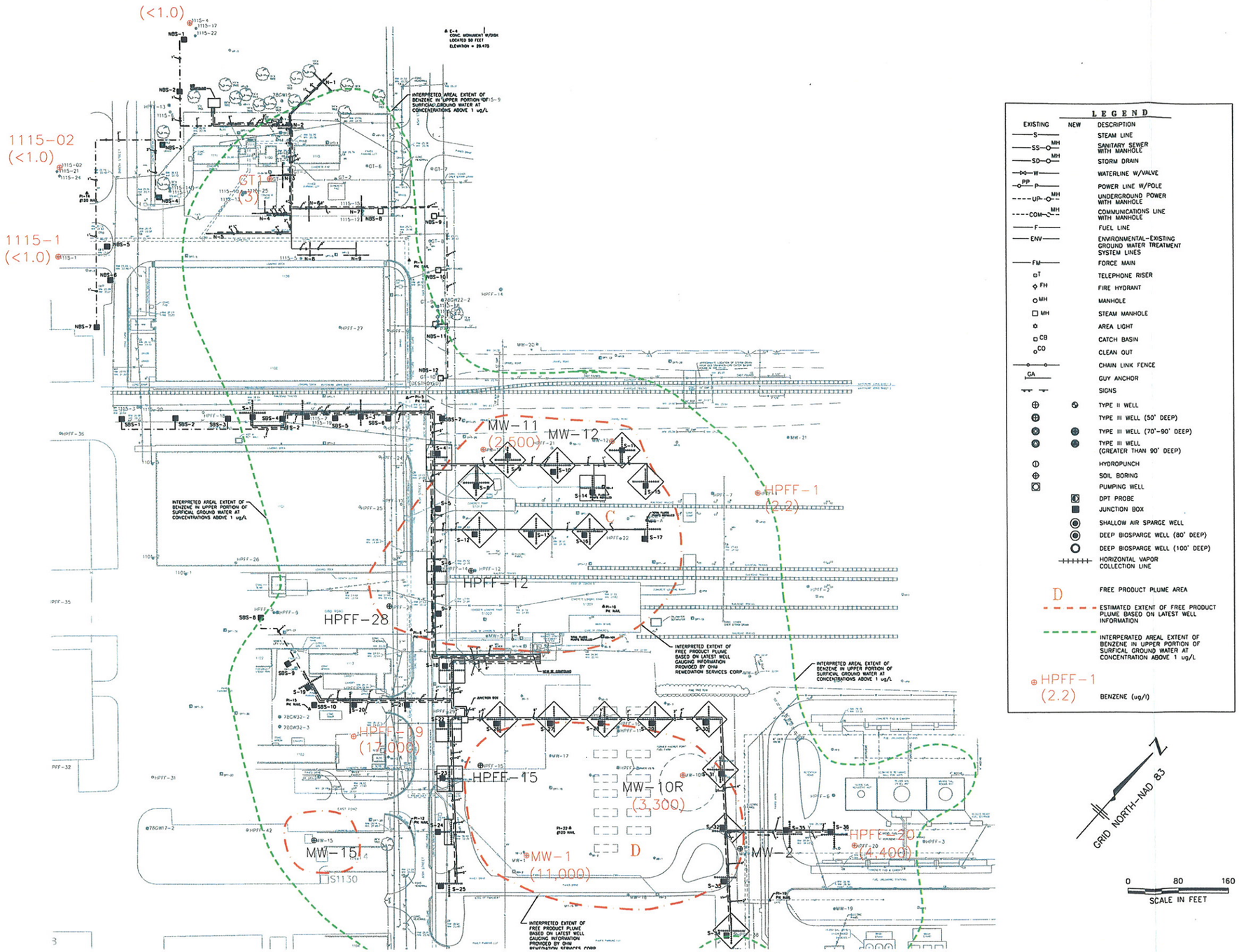
CONTRACT N62470-02-D-3260 — DELIVERY ORDER NO. 055

PROJECT No. 117407 — MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.5
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER
& FREE PRODUCT CONTAMINATION
JULY 2001
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
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DATE: 2/15/06

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Xref: X01
Image:



LEGEND

EXISTING	NEW	DESCRIPTION
—S—		STEAM LINE
—SS—MH		SANITARY SEWER WITH MANHOLE
—SD—MH		STORM DRAIN
—W—		WATERLINE W/VALVE
—PP—P—		POWER LINE W/POLE
---UP---MH		UNDERGROUND POWER WITH MANHOLE
---COM---MH		COMMUNICATIONS LINE WITH MANHOLE
—F—		FUEL LINE
—ENV—		ENVIRONMENTAL-EXISTING GROUND WATER TREATMENT SYSTEM LINES
—FM—		FORCE MAIN
T		TELEPHONE RISER
FH		FIRE HYDRANT
MH		MANHOLE
MH		STEAM MANHOLE
		AREA LIGHT
CB		CATCH BASIN
CO		CLEAN OUT
		CHAIN LINK FENCE
GA		GUY ANCHOR
		SIGNS
		TYPE II WELL
		TYPE III WELL (50' DEEP)
		TYPE III WELL (70'-90' DEEP)
		TYPE III WELL (GREATER THAN 90' DEEP)
		HYDROPUNCH
		SOIL BORING
		PUMPING WELL
		DPT PROBE
		JUNCTION BOX
		SHALLOW AIR SPARGE WELL
		DEEP BIOSPARGE WELL (80' DEEP)
		DEEP BIOSPARGE WELL (100' DEEP)
		HORIZONTAL VAPOR COLLECTION LINE
D		FREE PRODUCT PLUME AREA
		ESTIMATED EXTENT OF FREE PRODUCT PLUME BASED ON LATEST WELL INFORMATION
		INTERPERATED AREAL EXTENT OF BENZENE IN UPPER PORTION OF SURFICAL GROUND WATER AT CONCENTRATION ABOVE 1 ug/L
HPFF-1 (2.2)		BENZENE (ug/l)

File: Y:\LEJUNE-6-05\RAC_IV\HPFF OPERATION AND MAINT\2005_AMR\AUG-JULBEN2000.dwg
Plot Date/Time: Apr 20, 2006 - 1:48pm
Plotted By: john.lange
Xref: X01
Image:

Shaw
Shaw Environmental, Inc.

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

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

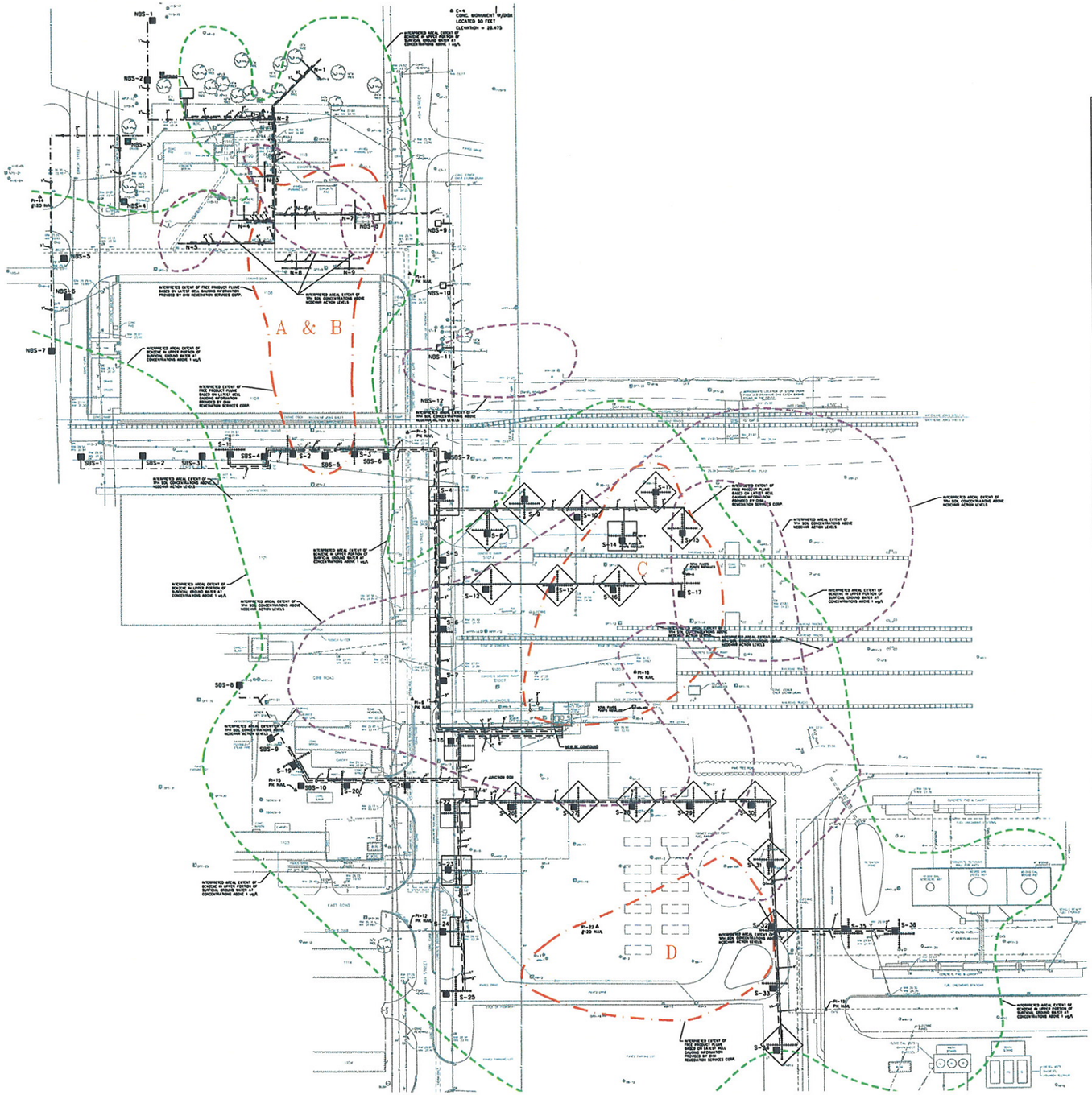
REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA
CONTRACT N62470-02-D-3260 DELIVERY ORDER NO. 055
PROJECT No. 117407 MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.6
BUILDING 1115 (NW COMPOUND)
& HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER
& FREE PRODUCT CONTAMINATION
JULY 2000
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 2/15/06



LEGEND

EXISTING	NEW	DESCRIPTION
—S—		STEAM LINE
—SS—MH		SANITARY SEWER WITH MANHOLE
—SD—MH		STORM DRAIN
—W—		WATERLINE W/VALVE
—PP—P—		POWER LINE W/POLE
---UP---MH		UNDERGROUND POWER WITH MANHOLE
---COM---MH		COMMUNICATIONS LINE WITH MANHOLE
—F—		FUEL LINE
—ENV—		ENVIRONMENTAL-EXISTING GROUND WATER TREATMENT SYSTEM LINES
—FM—		FORCE MAIN
T		TELEPHONE RISER
FH		FIRE HYDRANT
MH		MANHOLE
MH		STEAM MANHOLE
		AREA LIGHT
CB		CATCH BASIN
CO		CLEAN OUT
		CHAIN LINK FENCE
GA		GUY ANCHOR
		SIGNS
⊕		TYPE II WELL
⊕		TYPE III WELL (50' DEEP)
⊗		TYPE III WELL (70'-90' DEEP)
Ⓐ		TYPE III WELL (GREATER THAN 90' DEEP)
⊙		HYDROPUNCH
⊕		SOIL BORING
⊠		PUMPING WELL
		DPT PROBE
		JUNCTION BOX
		SHALLOW AIR SPARGE WELL
		DEEP BIOSPARGE WELL (80' DEEP)
		DEEP BIOSPARGE WELL (100' DEEP)
		HORIZONTAL VAPOR COLLECTION LINE
D		FREE PRODUCT PLUME AREA
		ESTIMATED EXTENT OF FREE PRODUCT PLUME BASED ON LATEST WELL INFORMATION
		INTERPRETED AREAL EXTENT OF TPH SOIL CONCENTRATIONS ABOVE NCDEHR ACTION LEVELS
		INTERPERATED AREAL EXTENT OF BENZENE IN UPPER PORTION OF SURFICAL GROUND WATER AT CONCENTRATION ABOVE 1 ug/L

GRID NORTH-NAD 83

0 80 160
SCALE IN FEET

Shaw
Shaw Environmental, Inc.

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

AT FULL SCALE (IF NOT 1"-SCALE ACCORDINGLY)
CADD FILE: _____
DRAWN: L. SHULMAN
DESIGNED: BOB BROWN
CHECKED: RON KENYON
CHECKED: JIM DUNN

REVISIONS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND

ATLANTIC DIVISION

NAVAL STATION — NORFOLK, VIRGINA

CONTRACT N62470-02-D-3260 — DELIVERY ORDER NO. 055

PROJECT No. 117407 — MARINE CORPS, CAMP LEJEUNE, N.C.

FIGURE 5.7
BUILDING 1115 (NW COMPOUND) & HPFF (SE COMPOUND)
AREAL EXTENT OF SHALLOW GROUNDWATER, SOIL & FREE PRODUCT CONTAMINATION
JULY 1999
HADNOT POINT FUEL FARM / BUILDING 1115

DRAWING NUMBER:
SHEET NUMBER: of
DATE: 2/15/06

File: Y:\LEJEUNE-6-05\RAC_IV\HPFF OPERATION AND MAINT\2005_AMR\AUG-JULBEN1999.dwg
Plot Date/Time: Apr 20, 2006 - 1:42pm
Plotted By: john.longe
Xref: X01
Image :

APPENDIX A

AGGRESSIVE FLUID/VAPOR RECOVERY (AFVR) SUMMARY TABLE

Aggressive Fluid Vapor Recovery (AFVR)
Petroleum Recovery Data
Hadnot Point Fuel Farm, Southeast Compound

Month	Number of Events		Petroleum Recovery	
	Area C	Area D	Pounds	Gallons
Sep-04	0	6	518.3	84.0
Oct-04	0	7	699.7	111.5
Nov-04	0	3	283.5	45.1
Dec-04	0	4	430.0	68.4
Jan-05	0	4	433.1	68.9
Feb-05	0	4	407.4	64.9
Mar-05	0	5	470.6	74.9
Apr-05	0	4	327.1	52.1
May-05	0	4	412.7	65.6
Jun-05	0	3	336.1	53.4
Jul-05	0	0	0.0	0.0
Aug-05	0	4	357.4	56.8
Total	**0**	**48**	**4675.9**	**745.6**

APPENDIX B

HISTORICAL GROUNDWATER ANALYTICAL RESULTS

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **MW-GT-1**

Sample ID:		UST1115T199C4	UST1115T199C3	UST1115T100C2	UST1115T101C1	UST1115T101C	UST1115-T1-02A
Date Sampled:		01/07/99	08/12/99	05/26/00	01/24/01	07/29/01	02/02/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**310 B**	**8300**	**13**	**25**	**12**	**4.0**
Ethylbenzene	550	**56**	**730**	**8.7**	**7**	**10**	**3.0**
Toluene	1000	**19 B**	**130**	**7.5**	**1.3**	**1.3**	<1.0
Xylenes (total)	530	**86 B**	**1400**	**32**	**7.8**	**14**	**1.4 J**
Total BTEX		**471**	**10560**	**61.2**	**41.1**	**37.3**	**8.4**
PAH EPA 610							
Naphthalene	21	**30**	**13**	<2.0	<2.0	**2.3**	<5.0
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **MW-GT-1**

Sample ID:		UST1115-T1-02C	UST1115-T1-03A	MW-GT-1-03C	UST1115-T1-04A	UST1115-T1-04C	UST1115GT-MW01	UST1115GT-MW01
Date Sampled:		08/05/02	02/18/03	08/22/03	02/21/04	08/25/04	03/24/05	08/17/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**0.88 J**	**80**	<1.0	**29.7**	**44.7**	**35.8**	**268**
Ethylbenzene	550	**1.9**	**41**	<1.0	**10.5**	**5.5**	**6.8**	**6.8**
Toluene	1000	<1.0	**557**	<1.0	**2.7**	**8.6**	**1.8**	**2.7 J**
Xylenes (total)	530	<3.0	**201**	<3.0	**8.3**	**4.4**	**3.7**	<15
Total BTEX		**2.78**	**879**		**51.2**	**63.2**	**48.1**	**277.5**
PAH EPA 610								
Naphthalene	21	<5.2	**6.6**	<5.4	<5.4	**10.7**	<4.8	**6.5**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **MW-GT-7**

Sample ID:		UST1115-T7-02C	UST1115-T7-03A	MW-GT-7-03C	MW-GT-7-04A	MW-GT-7-04C	UST1115GT-MW07	UST1115GT-MW07
Date Sampled:		08/12/02	02/17/03	08/20/03	02/21/04	08/19/04	03/24/05	08/17/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**2.9**	**205**	**235**	**0.74 J**	**37.9**	**11**	**22.7**
Ethylbenzene	550	**1.6**	<1.0	**0.63 J**	<1.0	**1.5**	<1.0	<1.0
Toluene	1000	<1.0	<1.0	**0.65 J**	**0.78 J**	**8.20**	**2.2**	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	**4.4**	**1.2 J**	<3.0
Total BTEX		**4.5**	**205**	**236.28**	**1.52**	**52**	**14.4**	**22.7**
PAH EPA 610								
Naphthalene	21	**8.9**	<5.4	<5.0	<5.3	<4.8	<4.8	<1.9
Bold type indicates detectable concentrations.								
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).								

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **MW-GT-9**

Sample ID:		UST1115-T9-02C	UST1115-T9-03A	MW-GT-9-03C	MW-GT-9-04A	MW-GT-9-04C	UST1115GT-MW09	UST1115GT-MW09
Date Sampled:		08/07/02	02/21/03	08/20/03	02/24/04	08/27/04	03/22/05	08/17/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**0.92 J**	**21.1**	<1.0	<1.0	**3.2**	<1.0	<1.0
Ethylbenzene	550	<1.0	**2.0**	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	**2.5**	<1.0	<1.0	**0.76 J**	<1.0	<1.0
Xylenes (total)	530	<3.0	**1.3 J**	<3.0	<3.0	<3.0	<3.0	<3.0
Total BTEX		**0.92**	**26.9**			**3.96**		
PAH EPA 610								
Naphthalene	21	<5.0	**4.5 J**	<5.3	<5.6	<4.8	<4.8	<1.9
Bold type indicates detectable concentrations.								
Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).								

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **78GW22-2**

Sample ID:		UST111522-299C4	UST111522-299C3	UST111522-200C2	UST111522-201C1	UST111522-201C	UST1115-22-2-02A
Date Sampled:		01/06/99 & 01/19/99	08/12/99	05/26/00	01/22/01	07/27/01	02/02/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**320**	**69**	**28**	**50**	**3.2**	**22.8**
Ethylbenzene	550	**44**	**3.5**	<1.0	**2.4**	<1.0	<1.0
Toluene	1000	**160**	**3.6**	**1.4**	**0.37 J**	<1.0	<1.0
Xylenes (total)	530	**130**	**9.3**	**1.1**	**0.82 J**	<1.0	<3.0
Total BTEX		**654**	**85.4**	**30.5**	**53.59**	**3.2**	**22.8**
PAH EPA 610							
Naphthalene	21	**11**	NS	<2.0	<2.0	<2.0	<5.0
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **78GW22-2**

Sample ID:		UST1115-22-2-02C	UST1115-22-2-03A	78GW22-2-03C	78GW22-2-04A	78GW22-2-04C	IR78-GW22-2	IR78-GW22-2
Date Sampled:		08/05/02	02/17/03	08/20/03	02/21/04	08/19/04	03/24/05	08/18/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**28.3**	**41.1**	**17.2**	**6.6**	**6.4**	**78.5**	**4.7**
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0
Toluene	1000	<1.0	**0.65 J**	<1.0	<1.0	<1.0	**12.6**	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	**6.3**	<3.0
Total BTEX		**28.3**	**41.75**	**17.2**	**6.6**	**6.4**	**98.8**	**4.7**
PAH EPA 610								
Naphthalene	21	<5.2	<5.1	<5.2	<5.4	<4.8	<4.8	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **MW-1115-01**

Sample ID:		UST11150199C4	UST11150100C2	UST11150101C1	UST11150101C	UST1115-01-02A	UST1115-01-02C
Date Sampled:		01/07/99 & 01/12/99	05/30/00	01/24/01	07/29/01	02/02/02	08/05/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**310 B**	<1.0	**32**	**14**	**6.0**	<1.0
Ethylbenzene	550	**56**	<1.0	**5.3**	**0.27 J**	<1.0	<1.0
Toluene	1000	**29 B**	<1.0	**0.39 J**	**1.1**	<1.0	<1.0
Xylenes (total)	530	**100 B**	<1.0	**1.4**	<1.0	<3.0	<3.0
Total BTEX		**495**		**39.09**	**15.37**	**6**	
PAH EPA 610							
Naphthalene	21	<2.0	<2.0	**3.9**	<2.0	<5.0	<5.1
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **MW-1115-01**

Sample ID:		UST1115-01-03A	MW-1115-01-03C	MW-1115-01-04A	MW-1115-01-04C	UST1115-MW01	UST1115-MW01
Date Sampled:		02/17/03	08/20/03	02/21/04	08/19/04	03/24/05	08/18/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**187**	<1.0	<1.0	**17.7**	**3.8**	<1.0
Ethylbenzene	550	<1.0	<1.0	<1.0	**0.92**	<1.0	<1.0
Toluene	1000	**1.0**	<1.0	**1.0**	**4.6**	**0.71 J**	<1.0
Xylenes (total)	530	**1.6 J**	<3.0	<3.0	**2.9**	<3.0	<3.0
Total BTEX		**189.6**		**1**	**26.12**	**4.51**	
PAH EPA 610							
Naphthalene	21	<5.1	<5.3	<5.1	<4.8	<4.8	<1.9
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **MW-1115-02**

Sample ID:		UST11150299C4	UST11150299C3	UST11150200C2	UST11150201C1	UST11150201C	UST1115-02-02A
Date Sampled:		01/06/99	08/12/99 & 08/26/99	05/26/00	01/24/01	07/29/01	02/02/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**29**	**53**	<1.0	**150**	**51**	**11.9**
Ethylbenzene	550	**7.2**	**3.5**	<1.0	**16**	**0.24 J**	**0.6**
Toluene	1000	**20**	**1.9**	<1.0	**1.2 J**	**0.87 J**	<1.0
Xylenes (total)	530	**22**	**9.6**	<1.0	**4.5**	<1.0	<3.0
Total BTEX		**78.2**	**68**		**171.7**	**52.11**	**12.5**
PAH EPA 610							
Naphthalene	21	**2.4**	<2.0	<2.0	**27**	<2.0	<5.0
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **MW-1115-02**

Sample ID:		UST1115-02-02C	UST1115-02-03A	MW-1115-02-03C	MW-1115-02-04A	MW-1115-02-04C	UST1115-MW02	UST1115-MW02
Date Sampled:		08/06/02	02/19/03	08/19/03	02/25/04	08/19/04	03/22/05	08/18/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**9.3**	**125**	**3.1**	**10.9**	**24.3**	**31.1**	<1.0
Ethylbenzene	550	<1.0	**6.6**	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	**6.4**	<1.0	<1.0	**0.52 J**	**3.3**	<1.0
Xylenes (total)	530	<3.0	**3.7 J**	<3.0	<3.0	<3.0	<3.0	<3.0
Total BTEX		**9.3**	**141.7**	**3.1**	**10.9**	**24.82**	**34.4**	
PAH EPA 610								
Naphthalene	21	<5.1	**11.2**	<5.3	<5.3	<4.8	<4.8	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **MW-1115-04**

Sample ID:		UST11150499C4	UST11150499C3	UST11150400C2	UST11150401C1	UST11150401C	UST1115-04-02A
Date Sampled:		01/07/99	08/12/99	05/26/00	01/23/01	07/27/01	02/02/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**190 B**	**28**	<1.0	**660**	**210**	**22.6**
Ethylbenzene	550	**43**	**1.9**	<1.0	**140**	**76**	**2.1**
Toluene	1000	**24 B**	**1**	<1.0	**7.6 J**	<10	<1.0
Xylenes (total)	530	**91 B**	**5.5**	<1.0	**66**	**65**	**1.7 J**
Total BTEX		**348**	**36.5**		**873.6**	**351**	**26.4**
PAH EPA 610							
Naphthalene	21	**23**	<2.1	<2.0	**32**	**54**	<5.5
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Shallow Well **MW-1115-04**

Sample ID:		UST1115-04-02C	UST1115-04-03A	MW-1115-04-03C	MW-1115-04-04A	MW-1115-04-04C	UST1115-MW04	UST1115-MW04
Date Sampled:		08/07/02	02/19/03	08/19/03	02/25/04	08/19/04	03/10/05	08/18/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**31.5**	**128**	<1.0	**16.8**	**31.5**	**42.7**	**0.63 J**
Ethylbenzene	550	**2.7**	**13.7**	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	**3.8**	<1.0	<1.0	**1.1**	**0.55 J**	**1.6**
Xylenes (total)	530	**3.1**	<6.0	<3.0	<3.0	<3.0	<3.0	<3.0
Total BTEX		**37.3**	**145.5**		**16.8**	**32.6**	**43.25**	**2.23**
PAH EPA 610								
Naphthalene	21	**7.3**	**21.2**	<5.5	<5.4	<4.8	<4.8	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

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Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Intermediate Well **MW-1115-13**

Sample ID:		UST11151399C4	UST11151399C3	UST11151300C2	UST11151301C1	UST11151301C	UST1115-13-02A
Date Sampled:		01/07/99	08/12/99	05/26/00	01/24/01	07/29/01	02/02/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**15000 B**	**230**	**13000**	**6400**	**2300**	**298**
Ethylbenzene	550	**930**	**30**	**770**	**460**	**230**	**40.9**
Toluene	1000	**220 JB**	**5.0**	<200	**39 J**	**8.7 J**	**2.7**
Xylenes (total)	530	**1500 B**	**56**	**910**	**210**	**56**	**16.5**
Total BTEX		**17650**	**321**	**14680**	**7109**	**2594.7**	**358.1**
PAH EPA 610							
Naphthalene	21	**660**	**18**	**420**	**330**	**230**	**79.4**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Intermediate Well **MW-1115-13**

Sample ID:		UST1115-13-02C	UST1115-13-03A	MW-1115-13-03C	MW-1115-13-04A	MW-1115-13-04C	UST1115-MW13	UST1115-MW13
Date Sampled:		08/12/02	02/19/03	08/20/03	02/24/04	08/25/04	03/22/05	08/17/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**95.5**	**872**	**340**	**228**	**202**	**82.1**	**61.6**
Ethylbenzene	550	**40.1**	**62.2**	**72.4**	**53**	**47.6**	**36.3**	**31.2**
Toluene	1000	<5.0	**28.3**	<2.0	<5.0	**11.8**	**0.67 J**	<10
Xylenes (total)	530	**16.8**	**21.5 J**	**16.6**	**11.7 J**	**16.3**	**11.8**	<30
Total BTEX		**152.4**	**984**	**429**	**292.7**	**277.7**	**130.87**	**92.8**
PAH EPA 610								
Naphthalene	21	**197**	**152**	**155**	**151**	**173**	**129**	**108**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

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Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Intermediate Well **MW-1115-17**

Sample ID:		UST11151799C4	UST11151799C3	UST11151700C2	UST11151701C1	UST11151701C	UST1115-17-02A
Date Sampled:		01/07/99	08/12/99	05/26/00	01/23/01	07/27/01	02/02/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**9200**	**9200**	**8900**	**7900**	**7400**	**8670**
Ethylbenzene	550	**830**	**100**	**780**	**750**	**840**	**973**
Toluene	1000	**140**	**100**	<150	**56 J**	<400	<100
Xylenes (total)	530	**1700**	**100**	**880**	**400**	**670**	**1050**
Total BTEX		**11870**	**9500**	**10560**	**9106**	**8910**	**10693**
PAH EPA 610							
Naphthalene	21	**530**	**340**	**360**	**340**	**570**	**31.2**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Intermediate Well **MW-1115-17**

Sample ID:		UST1115-17-02C	UST1115-17-03A	MW-1115-17-03C	MW-1115-17-04A	MW-1115-17-04C	UST1115-MW17	UST1115-MW17
Date Sampled:		08/07/02	02/19/03	08/19/03	02/25/04	08/19/04	03/10/05	08/18/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**7770**	**3490**	**84.3**	**36.9**	**34.1**	**72.3**	**9.5**
Ethylbenzene	550	**76.3**	**196**	**63.4**	**3.5**	<2.0	<5.0	<1.0
Toluene	1000	**10**	<50	<2.0	**2.5**	**1.4 J**	<5.0	<1.0
Xylenes (total)	530	**99.4**	<150	<5.0	<6.0	**2.9 J**	<15	**2.4 J**
Total BTEX		**7955.7**	**3686**	**147.7**	**42.9**	**38.4**	**72.3**	**11.9**
PAH EPA 610								
Naphthalene	21	**250**	**270**	**332**	**89.8**	**10.5**	**4.8**	**4.4**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Intermediate Well **MW-1115-18**

Sample ID:		UST11151899C4	UST11151899C3	UST11151800C2	UST11151801C1	UST11151801C	UST1115-18-02A
Date Sampled:		01/06/99	08/12/99	05/26/00	01/22/01	07/29/01	02/02/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**16000**	**990**	**1200**	**420**	**3.1**	**30.2**
Ethylbenzene	550	**850**	**63**	**53**	**21**	**0.51 J**	**1.3**
Toluene	1000	**2100**	**17**	<20	**2.3 J**	**2.1**	**1.2**
Xylenes (total)	530	**1800**	**70**	<20	**6.9**	**1.4**	<3.0
Total BTEX		**20750**	**1140**	**1253**	**450.2**	**7.11**	**32.7**
PAH EPA 610							
Naphthalene	21	**190**	<2.3	**6.7**	<2.0	<2.0	<5.0
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Intermediate Well **MW-1115-18**

Sample ID:		UST1115-18-02C	UST1115-18-03A	MW-1115-18-03C	MW-1115-18-04A	MW-1115-18-04A	UST1115-MW18	UST1115-MW18
Date Sampled:		08/07/02	02/20/03	08/20/03	03/02/04	08/19/04	03/22/05	08/17/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**33.8**	NS	**215**	**2630**	NS	**9.6 J**	NS
Ethylbenzene	550	**2.1**	NS	**4.1**	**76.8**	NS	**4.6**	NS
Toluene	1000	**1.5**	NS	**1.4 J**	**5.6**	NS	**2.0**	NS
Xylenes (total)	530	**5.1**	NS	**4.6 J**	**15.7**	NS	**9.6**	NS
Total BTEX		**42.5**		**225.1**	**2728.1**		**25.8**	
PAH EPA 610								
Naphthalene	21	<5.0	NS	**2.7 J**	**19.8**	NS	<4.8	NS
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Intermediate Well **MW-1115-21**

Sample ID:		UST11152199C4	UST11152199C3	UST11152100C2	UST11152101C1	UST11152101C	UST1115-21-02A
Date Sampled:		01/06/99	08/12/99 & 08/26/99	05/26/00	01/24/01	07/29/01	02/02/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**2000**	**1600**	**2200**	**1200**	**960**	**1920**
Ethylbenzene	550	<50	<20	<25	**55**	**5.2 J**	<5.0
Toluene	1000	**21 J**	<20	<25	**4.4 J**	<20	<5.0
Xylenes (total)	530	**27 J**	<20	<25	**21**	<20	<15
Total BTEX		**2048**	**1600**	**2200**	**1280.4**	**965.2**	**1920**
PAH EPA 610							
Naphthalene	21	**15**	**10**	**8.6**	**18**	<2.0	**8.1**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Intermediate Well **MW-1115-21**

Sample ID:		UST1115-21-02C	UST1115-21-03A	MW-1115-21-03C	MW-1115-21-04A	MW-1115-21-04C	UST1115-MW21	UST1115-MW21
Date Sampled:		08/06/02	02/19/03	08/19/03	02/25/04	08/19/04	03/10/05	08/18/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**620**	**727**	**485**	**607**	**521**	**338**	**282**
Ethylbenzene	550	<1.0	**11.7**	<1.0	<5.0	<10	<1.0	<5.0
Toluene	1000	<1.0	**7.8 J**	<1.0	<5.0	<10	<1.0	<5.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<15	<30	<3.0	<15
Total BTEX		**620**	**746.5**	**485**	**607**	**521**	**338**	**282**
PAH EPA 610								
Naphthalene	21	**4.0 J**	**19.9**	**7.0**	**3.9 J**	**5.3**	**2.9 J**	**2.5**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Deep Well **MW-1115-22**

Sample ID:		UST11152299C4	UST11152299C3	UST11152200C2	UST11152201C1	UST11152201C	UST1115-22-02A	UST1115-22-02C
Date Sampled:		01/07/99	08/12/99 & 08/26/99	05/26/00	01/23/01	07/27/01	02/02/02	08/07/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**460**	**1100**	**900**	**940**	**700**	**1250**	<1.0
Ethylbenzene	550	<5.0	<20	<10	**5.6 J**	<40	**3.4**	<1.0
Toluene	1000	**1.4 J**	<20	<10	**4.2 J**	<40	**3.5**	<1.0
Xylenes (total)	530	<5.0	**29**	<10	<10	<40	<3.0	<3.0
Total BTEX		**461.4**	**1129**	**900**	**949.8**	**700**	**1256.9**	
PAH EPA 610								
Naphthalene	21	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<5.1
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Deep Well **MW-1115-22**

Sample ID:		UST1115-22-02C (Resample)	UST1115-22-03A	MW-1115-22-03C	MW-1115-22-04A	MW-1115-22-04C	UST1115-MW22	UST1115-MW22
Date Sampled:		09/04/02	02/19/03	08/19/03	02/25/04	08/19/04	03/10/05	08/18/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**251**	**1320**	**1930**	**2230**	**3270**	**2850**	**3380**
Ethylbenzene	550	<5.0	<20	**4.4**	<50	<50	<20	<50
Toluene	1000	<5.0	**21**	<10	<50	<50	**20.3**	**32.4 J**
Xylenes (total)	530	<15	<60	**1.0 J**	<150	<150	<60	<150
Total BTEX		**251**	**1341**	**1935.4**	**2230**	**3270**	**2870.3**	**3412.4**
PAH EPA 610								
Naphthalene	21	NA	<5.1	**4.8 J**	**3.2 J**	**5.7**	**4.0 J**	**2.8**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Deep Well **MW-1115-23**

Sample ID:		UST11152399C4	UST11152399C3	UST11152300C2	UST11152301C1	UST11152301C	UST1115-23-02A
Date Sampled:		01/06/99 & 01/19/99	08/12/99	05/26/00	01/22/01	07/29/01	02/02/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**15000**	**5000**	**270**	**4.7 J**	**13**	**22**
Ethylbenzene	550	**500**	**140**	**34**	**4.9 J**	**1.1**	<5.0
Toluene	1000	**5700**	**180**	<25	**1.1 J**	**2.8**	<5.0
Xylenes (total)	530	**1900**	**420**	**40**	**5.6**	**2.2**	<15
Total BTEX		**23100**	**5740**	**344**	**16.3**	**19.1**	**22**
PAH EPA 610							
Naphthalene	21	**11**	<2.1	<2.0	<2.0	<2.0	<5.5
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Deep Well **MW-1115-23**

Sample ID:		UST1115-23-02C	UST1115-23-03A	MW-1115-23-03C	MW-1115-23-04A	MW-1115-23-04C	UST1115-MW23	UST1115-MW23
Date Sampled:		08/05/02	02/18/03	08/20/03	02/21/04	08/19/04	03/24/05	08/19/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**17.8**	**0.98 J**	**260**	**703**	**2720**	**3120**	**5240**
Ethylbenzene	550	**1.7**	<5.0	**5.2**	**14.8 J**	**38.6**	**54.3**	**91.7 J**
Toluene	1000	**1.3**	<1.0	**2.2**	**98.7**	**267**	**346**	**653**
Xylenes (total)	530	**7.3**	<15	**7.6**	**35.9 J**	**112**	**208**	**315**
Total BTEX		**28.1**	**0.98**	**275**	**852.4**	**3137.6**	**3728.3**	**6299.7**
PAH EPA 610								
Naphthalene	21	<5.3	<5.1	<5.4	<5.3	<4.8	<4.8	**1.7 J**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Deep Well **MW-1115-24**

Sample ID:		UST11152499C4	UST11152499C3	UST11152400C2	UST11152401C1	UST11152401C	UST1115-24-02A
Date Sampled:		01/06/99	08/12/99	05/26/00	01/24/01	07/29/01	02/02/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**1800**	**2400**	**3200**	**2700**	**2900**	**2480**
Ethylbenzene	550	**22 J**	<40	<40	**49**	**13 J**	**5.2**
Toluene	1000	**55**	<40	<40	**32 J**	<50	<5.0
Xylenes (total)	530	**64**	<40	<40	**89**	<50	<15
Total BTEX		**1941**	**2400**	**3200**	**2870**	**2913**	**2485.2**
PAH EPA 610							
Naphthalene	21	**9.7**	<2.0	**6.1**	**30**	<2.0	<5.0
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Deep Well **MW-1115-24**

Sample ID:		UST1115-24-02C	UST1115-24-03A	MW-1115-24-03C	MW-1115-24-04A	MW-1115-24-04C	UST1115-MW24	UST1115-MW24
Date Sampled:		08/06/02	02/19/03	08/19/03	02/25/04	08/19/04	03/10/05	08/18/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**3060**	**4120**	**3990**	**4100**	**3630**	**1030**	**3120**
Ethylbenzene	550	**1.5**	<50	<50	<50	<50	<20	<50
Toluene	1000	**0.76 J**	<50	<50	<50	<50	**23.2**	<50
Xylenes (total)	530	**1.0 J**	<150	<150	<150	<150	<60	<150
Total BTEX		**3063.26**	**4120**	**3990**	**4100**	**3630**	**1053.2**	**3120**
PAH EPA 610								
Naphthalene	21	<5.0	**23.6**	**6.7**	**4.2 J**	**3.0 J**	<4.8	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Intermediate Well **MW-1115-25**

Sample ID:		UST11152599C4	UST11152599C3	UST11152500C2	UST11152501C1	UST11152501C	UST1115-25-02A	UST1115-25-02C
Date Sampled:		01/07/99	08/12/99	05/26/00	01/24/01	07/29/01	02/02/02	08/12/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**63 B**	**240**	**650**	**1100**	**29**	**3.1**	**1850**
Ethylbenzene	550	**20**	**39**	**29**	**53**	**15**	**0.57 J**	<20
Toluene	1000	**13 B**	**6.4**	<10	**15**	**3.1**	<1.0	**37.1**
Xylenes (total)	530	**44 B**	**73**	**32**	**33**	**7.9**	<3.0	<60
Total BTEX		**140**	**358.4**	**711**	**1201**	**55**	**3.67**	**1887.1**
PAH EPA 610								
Naphthalene	21	**16**	<2.1	**10**	**39**	**11**	<5.0	<5.2
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

NW Intermediate Well **MW-1115-25**

Sample ID:		UST1115-25-02C (Resample)	UST1115-25-03A	MW-1115-25-03C	MW-1115-25-04A	MW-1115-25-04C	UST1115-MW25	UST1115-MW25
Date Sampled:		09/04/02	02/19/03	08/22/03	02/24/04	08/25/04	03/22/05	08/17/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**1660**	**2840**	**3300**	**3580**	**5960**	**5170**	**4990**
Ethylbenzene	550	<20	<50	**8.2**	<50	**40.4 J**	**47.3 J**	**58.3**
Toluene	1000	**47.9**	**150**	**292**	**362**	**650**	**418**	**678**
Xylenes (total)	530	<60	<150	**15.3**	**63.2 J**	**120 J**	**157**	**216**
Total BTEX		**1707.9**	**2990**	**3615.5**	**4005.2**	**6770.4**	**5792.3**	**5942.3**
PAH EPA 610								
Naphthalene	21	NA	**10**	<5.2	<5.0	<4.8	**3.3 J**	**1.1 J**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank
NS= not sampled

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **MW-1**

Sample ID:		CLJ-0011-005-MW-1	CLJ-0011-022-MW-1	CLJ-0011-039-MW-1	CLJ-0011-60	HPFF-MW01-01C	HPFF-MW01-02A
Date Sampled:		01/27/99	10/18/99	07/26/00	01/31/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**16000**	**9400**	**11000**	**8300**	**7700**	**3280**
Ethylbenzene	550	**6100**	**2400**	**4500**	**2700**	**2600**	**1460**
Toluene	1000	**41000**	**24000**	**29000**	**25000**	**25000**	**14100**
Xylenes (total)	530	**26000**	**10000**	**17000**	**12000**	**11000**	**7370**
Total BTEX		**89100**	**45800**	**61500**	**48000**	**46300**	**26210**
PAH EPA 610							
Naphthalene	21	**760**	**410**	**280**	**450**	**330**	**584**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **MW-1**

Sample ID:		HPFF-MW01-02C	HPFF-MW01-03A	MW-1-03C	MW-1-04A	MW-1-04C	USTHPFF-MW01	USTHPFF-MW01
Date Sampled:		08/13/02	02/17/03	08/27/03	02/14/04	08/20/04	04/13/05	08/31/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**5710**	**5380**	**6670**	**4970**	**3180**	**4480**	**4140**
Ethylbenzene	550	**4720**	**2280**	**3950**	**3580**	**2620**	**3670**	**3850**
Toluene	1000	**22200**	**22000**	**26200**	**25500**	**20700**	**22200**	**24400**
Xylenes (total)	530	**19700**	**11600**	**17200**	**16500**	**12300**	**15300**	**17200**
Total BTEX		**52330**	**41260**	**54020**	**50550**	**38800**	**45650**	**49590**
PAH EPA 610								
Naphthalene	21	**358**	**415**	**417**	**473**	**586**	**355**	**542**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **MW-10R**

Sample ID:		CLJ-0011-012-MW-10R	CLJ-0011-029-MW-10R	CLJ-0011-046-MW-10R	CLJ-0011-68	HPFF-MW10R-01C	HPFF-MW10R-02A
Date Sampled:		01/28/99	10/18/99	07/24/00	01/31/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**5200**	**2200**	**3300**	**5200**	**5800**	**4410**
Ethylbenzene	550	**1900**	**610**	**770**	**1100**	**1200**	**1120**
Toluene	1000	**15000**	**7500**	**7900**	**5900**	**5800**	**5530**
Xylenes (total)	530	**8300**	**5000**	**3300**	**5300**	**6100**	**6040**
Total BTEX		**30400**	**15310**	**15270**	**17500**	**18900**	**17100**
PAH EPA 610							
Naphthalene	21	**880**	**400**	**150**	**210**	**180**	**286**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **MW-10R**

Sample ID:		HPFF-MW10R-02C	HPFF-MW10R-03A	MW-10R-03C	MW-10R-04A	MW-10R-04C	USTHPFF-MW10R	USTHPFF-MW10R
Date Sampled:		08/13/02	02/17/03	08/27/03	02/14/04	09/08/04	04/13/05	08/27/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**3780**	**2340**	**2830**	**197**	**480**	**487**	**1060**
Ethylbenzene	550	**946**	**352**	**843**	**175**	**602**	**108**	**319**
Toluene	1000	**5790**	**2380**	**5070**	**650**	**2210**	**288**	**929**
Xylenes (total)	530	**6190**	**2260**	**4830**	**861**	**2590**	**524**	**1510**
Total BTEX		**16706**	**7332**	**13573**	**1883**	**5882**	**1407**	**3818**
PAH EPA 610								
Naphthalene	21	**229**	**55.5**	**212**	**50.9**	**178**	**34.5**	**53.6**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **MW-11**

Sample ID:		CLJ-0011-002-MW-1	CLJ-0011-019-MW-1	CLJ-0011-036-MW-1	CLJ-0011-59	HPFF-MW11-02A	HPFF-MW11-02C
Date Sampled:		01/27/99	10/18/99	07/26/00	02/01/01	02/09/02	08/13/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**1.2**	**40**	**2500**	**480**	**64.4**	**26.2**
Ethylbenzene	550	<1.0	**16**	**430**	**140**	**11**	**9.5**
Toluene	1000	<1.0	**140**	**4300**	**450**	**71**	**87.1**
Xylenes (total)	530	<1.0	**94**	**3000**	**580**	**31**	**28**
Total BTEX		**1.2**	**290**	**10230**	**1650**	**177.4**	**150.8**
PAH EPA 610							
Naphthalene	21	<2.0	**2.4**	<2.0	<2.0	<5.0	<5.2
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
2004C event - too silty to sample

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **MW-11**

Sample ID:		HPFF-MW11-03A	MW-11-03C	MW-11-04A	MW-11-04C	USTHPFF-MW11	USTHPFF-MW11
Date Sampled:		02/18/03	08/22/03	02/14/04	08/27/04	04/05/05	08/27/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**274**	**957**	**6.5**	NS	**5.2**	**1.3**
Ethylbenzene	550	**98.3**	**19.5**	**1.1**	NS	<1.0	<1.0
Toluene	1000	**1160**	**319**	<1.0	NS	<1.0	<1.0
Xylenes (total)	530	**501**	**378**	**1.2 J**	NS	<3.0	<3.0
Total BTEX		**2033.3**	**1673.5**	**8.8**		**5.2**	**1.3**
PAH EPA 610							
Naphthalene	21	**7.5**	<5.4	<5.7	NS	<4.8	<1.9
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank
2004C event - too silty to sample

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **MW-17A**

Sample ID:		CLJ-0011-010-MW-17A	CLJ-0011-027-MW-17A	CLJ-0011-044-MW-17A	CLJ-0011-66	HPFF-MW17-01C	HPFF-MW17-02A
Date Sampled:		01/28/99	10/18/99	07/24/00	01/31/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**7700**	**5400**	**6700**	**16000**	**12000**	**12200**
Ethylbenzene	550	**23000**	**2400**	**2500**	**620**	<1000	**675**
Toluene	1000	**46000**	**25000**	**25000**	**13000**	**7500**	**14000**
Xylenes (total)	530	**84000**	**9800**	**10000**	**4200**	**2600**	**4100**
Total BTEX		**160700**	**42600**	**44200**	**33820**	**22100**	**30975**
PAH EPA 610							
Naphthalene	21	**1300**	**420**	**420**	**230**	**130**	**258**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **MW-17A**

Sample ID:		HPFF-MW17-02C	HPFF-MW17-03A	MW-17A-03C	MW-17A-04A	MW-17A-04C	USTHPFF-MW17A	USTHPFF-MW17A
Date Sampled:		08/13/02	02/21/03	08/25/03	02/20/04	09/13/04	04/13/05	08/31/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**6140**	**5720**	**6830**	**5520**	**4910**	**6500**	**7380**
Ethylbenzene	550	**2910**	**3260**	**3860**	**2690**	**2070**	**3300**	**3270**
Toluene	1000	**27200**	**22800**	**27200**	**24800**	**20000**	**22300**	**26200**
Xylenes (total)	530	**9950**	**11300**	**13900**	**10200**	**7990**	**12000**	**12300**
Total BTEX		**46200**	**43080**	**51790**	**43210**	**34970**	**44100**	**49150**
PAH EPA 610								
Naphthalene	21	**364**	**415**	**415**	**432**	**402**	**419**	**373**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **MW-18**

Sample ID:		CLJ-0011-006-MW-18	CLJ-0011-023-MW-18	CLJ-0011-040-MW-18	CLJ-0011-62	HPFF-MW18-01C	HPFF-MW18-02A
Date Sampled:		01/28/99	10/18/99	07/26/00	01/31/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**28000**	**15000**	**16000**	**12000**	**11000**	**18900**
Ethylbenzene	550	**12000**	**1400**	**1400**	**1300**	**1100**	**1830**
Toluene	1000	**65000**	**25000**	**29000**	**24000**	**22000**	**36100**
Xylenes (total)	530	**46000**	**7300**	**8000**	**8000**	**7400**	**10700**
Total BTEX		**151000**	**48700**	**54400**	**45300**	**41500**	**67530**
PAH EPA 610							
Naphthalene	21	**1300**	**460**	**330**	**550**	**410**	**685**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

Analytical Data Summary

SE Shallow Well **MW-18**

Sample ID:		HPFF-MW18-02C	HPFF-MW18-03A	MW-18-03C	MW-18-04A	MW-18-04C	USTHPFF-MW18	USTHPFF-MW18
Date Sampled:		08/14/02	02/18/03	08/27/03	02/14/04	08/20/04	04/13/05	08/31/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**18200**	**16900**	**5440**	**12900**	**7040**	**12800**	**12300**
Ethylbenzene	550	**1520**	**1370**	**1930**	**1800**	**1950**	**1870**	**1680**
Toluene	1000	**30300**	**30000**	**15100**	**27100**	**17800**	**27800**	**28400**
Xylenes (total)	530	**8790**	**7670**	**11700**	**11000**	**13700**	**11100**	**10600**
Total BTEX		**58810**	**55940**	**34170**	**52800**	**40490**	**53570**	**52980**
PAH EPA 610								
Naphthalene	21	**519**	**464**	**768**	**658**	**700**	**562**	**487**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **HPFF-1**

Sample ID:		CLJ-0011-004-HPFF-1	CLJ-0011-021-HPFF-1	CLJ-0011-038-HPFF-1	CLJ-0011-56	HPFF-HPFF01-02C	HPFF-HPFF01-03A
Date Sampled:		01/27/99	10/18/99	07/20/00	02/01/01	08/13/02	02/21/03
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	<1.0	**5.4**	**2.2**	**42**	<1.0	**32.3**
Ethylbenzene	550	<1.0	**13**	**3.5**	**16**	<1.0	**2.4**
Toluene	1000	<1.0	**42**	**13**	**120**	<1.0	**4.5**
Xylenes (total)	530	<1.0	**40**	**14**	**81**	<3.0	**2.4 J**
Total BTEX			**100.4**	**32.7**	**259**		**41.6**
PAH EPA 610							
Naphthalene	21	<2.0	<2.0	<2.0	**2.3**	<5.2	**6.1**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **HPFF-1**

Sample ID:		HPFF-1-03C	HPFF-1-04A	HPFF-1-04C	USTHPFFC-MW01	USTHPFFC-MW01
Date Sampled:		08/22/03	02/13/04	08/27/04	04/05/05	08/20/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602						
Benzene	1	<1.0	<1.0	**3.8**	<1.0	<1.0
Ethylbenzene	550	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	**0.88 J**	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0
Total BTEX				**4.68**		
PAH EPA 610						
Naphthalene	21	<5.2	<5.3	<4.8	<4.8	<1.9
		Bold type indicates detectable concentrations.				
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).				

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **HPFF-5**

Sample ID:		HPFF-HPFF05-02C	HPFF-HPFF05-03A	HPFF-5-03C	HPFF-5-04A	HPFF-5-04C	USTHPFFC-MW05	USTHPFFC-MW05
Date Sampled:		08/14/02	02/21/03	08/25/03	02/13/04	08/27/04	04/05/05	08/22/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**0.7 J**	**674**	**44.2**	**8.4**	**4.1**	<1.0	<1.0
Ethylbenzene	550	**0.53 J**	**33.6**	**5.2**	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	**4.6**	**13.4**	<1.0	**0.92 J**	<1.0	<1.0
Xylenes (total)	530	**4.6**	**9.9**	**7.4**	<3.0	<3.0	<3.0	<3.0
Total BTEX		**5.83**	**722.1**	**70.2**	**8.4**	**5.02**		
PAH EPA 610								
Naphthalene	21	<5.1	**6.4**	<5.3	<5.3	<4.8	<4.8	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Intermediate Well **HPFF-7**

Sample ID:		CLJ-0011-003-HPFF-7	CLJ-0011-020-HPFF-7	CLJ-0011-037-HPFF-7	CLJ-0011-55	HPFF-HPFF07-01C	HPFF-HPFF07-02A
Date Sampled:		01/27/99	10/18/99	07/20/00	02/01/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**79**	**63**	**23**	**13**	**4.2**	**24.9**
Ethylbenzene	550	**100**	**91**	**58**	**28**	**27**	**15.5**
Toluene	1000	**10**	**41**	**2.7**	**26**	<1.0	**36.4**
Xylenes (total)	530	**36**	**41**	**4.4**	**28**	<1.0	**15**
Total BTEX		**225**	**236**	**88.1**	**95**	**31.2**	**91.8**
PAH EPA 610							
Naphthalene	21	**3.5**	**6.6**	<2.0	**1.5 J**	<2.0	<5.0
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Intermediate Well **HPFF-7**

Sample ID:		HPFF-HPFF07-02C	HPFF-HPFF07-03A	HPFF-7-03C	HPFF-7-04A	HPFF-7-04C	USTHPFFC-MW07	USTHPFFC-MW07
Date Sampled:		08/12/02	02/21/03	08/22/03	02/13/04	08/27/04	04/05/05	08/20/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**1.6**	**9.5**	**0.79 J**	<1.0	**1.5**	<1.0	<1.0
Ethylbenzene	550	**7.4**	**5.4**	**1.1**	<1.0	**0.9 J**	**0.56 J**	<1.0
Toluene	1000	<1.0	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	**1.2 J**	<3.0	<3.0	<3.0	<3.0	<3.0
Total BTEX		**9**	**17.9**	**1.89**		**2.4**	**0.56**	
PAH EPA 610								
Naphthalene	21	**11**	**3.2 J**	<5.8	<5.1	<4.8	<4.8	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Intermediate Well **HPFF-8**

Sample ID:		CLJ-0011-011-HPFF-8	CLJ-0011-028-HPFF-8	CLJ-0011-045-HPFF-8	CLJ-0011-67	HPFF-HPFF8-01C	HPFF-HPFF8-02A
Date Sampled:		01/28/99	10/18/99	07/24/00	01/31/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**1300**	**8000**	**7100**	**7700**	**10000**	**12300**
Ethylbenzene	550	<50	**730**	**480**	**540**	**590**	**714**
Toluene	1000	**170**	**1900**	**720**	**1100**	**1900**	**725**
Xylenes (total)	530	**160**	**1800**	**980**	**1100**	**1700**	**882**
Total BTEX		**1630**	**12430**	**9280**	**10440**	**14190**	**14621**
PAH EPA 610							
Naphthalene	21	<2.0	**140**	**110**	**130**	**130**	**10**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Intermediate Well **HPFF-8**

Sample ID:		HPFF-HPFF8-02C	HPFF-HPFF8-03A	HPFF-8-03C	HPFF-8-04A	HPFF-8-04C	USTHPFFC-MW08	USTHPFFC-MW08
Date Sampled:		08/13/02	02/21/03	08/25/03	02/20/04	08/31/04	04/13/05	08/31/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**14600**	**10900**	**7420**	**10200**	**11500**	**10600**	**7710**
Ethylbenzene	550	**903**	**878**	**740**	**609**	**627**	**859**	**349**
Toluene	1000	**1190**	**2150**	**1690**	**1230**	**1540**	**1680**	**145**
Xylenes (total)	530	**2020**	**2610**	**2130**	**1530**	**2130**	**2750**	**801**
Total BTEX		**18713**	**16538**	**11980**	**13569**	**15797**	**15889**	**9005**
PAH EPA 610								
Naphthalene	21	**161**	**173**	**184**	**184**	**171**	**165**	**80.9**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Intermediate Well **HPFF-9**

Sample ID:		HPFF-HPFF09-02C	HPFF-HPFF09-03A	HPFF-9-03C	HPFF-9-04A	HPFF-9-04C	USTHPFFC-MW09	USTHPFFC-MW09
Date Sampled:		08/14/02	02/21/03	08/22/03	02/13/04	08/27/04	04/05/05	08/22/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**10800**	**22600**	**4090**	**727**	**0.88 J**	**0.76 J**	<5.0
Ethylbenzene	550	**621**	**363**	**96.4**	**23.2**	<1.0	**0.57 J**	<5.0
Toluene	1000	<250	**62.4**	<5.0	<10	<1.0	**1.2**	<5.0
Xylenes (total)	530	**1160**	**137 J**	**9.2 J**	<30	<3.0	**3.5**	<15
Total BTEX		**12581**	**23162.4**	**4195.6**	**750.2**	**0.88**	**6.03**	
PAH EPA 610								
Naphthalene	21	**112**	**70.1**	**13.6**	<5.5	<4.9	<4.8	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Deep Well **HPFF-11**

Sample ID:		HPFF-HPFF11-02C	HPFF-HPFF11-03A	HPFF-11-03C	HPFF-11-04A	HPFF-11-04C	USTHPFFC-MW11	USTHPFFC-MW11
Date Sampled:		08/13/02	02/21/03	08/25/03	02/20/04	08/31/04	04/13/05	08/20/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**809**	**489**	**348**	**114**	**89.6**	<1.0	**44.7**
Ethylbenzene	550	**52.1**	**63.6**	<5.0	<2.0	**2.6**	**0.64 J**	<1.0
Toluene	1000	**84.5**	**580**	<5.0	<2.0	**0.56 J**	**0.68 J**	**0.83 J**
Xylenes (total)	530	**110**	**187**	<15	<6.0	<3.0	<3.0	**2.9 J**
Total BTEX		**1055.6**	**1319.6**	**348**	**114**	**92.76**	**1.32**	**48.43**
PAH EPA 610								
Naphthalene	21	**2.3 J**	**8.0**	<5.2	<5.3	<4.8	<4.9	<1.9
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **HPFF-19**

Sample ID:		CLJ-0011-009-HPFF-19	CLJ-0011-026-HPFF-19	CLJ-0011-043-HPFF-19	CLJ-0011-65	HPFF-HPFF19-01C	HPFF-HPFF19-02A
Date Sampled:		01/28/99	10/15/99	07/26/00	01/31/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**28000**	**12000**	**17000**	**19000**	**13000**	**15000**
Ethylbenzene	550	**3100**	**2000**	**2100**	**2000**	**1600**	**1780**
Toluene	1000	**32000**	**23000**	**26000**	**23000**	**19000**	**20300**
Xylenes (total)	530	**12000**	**7900**	**9600**	**9000**	**8100**	**9300**
Total BTEX		**75100**	**44900**	**54700**	**53000**	**41700**	**46380**
PAH EPA 610							
Naphthalene	21	**370**	**260**	**280**	**390**	**290**	**326**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

Analytical Data Summary

SE Shallow Well **HPFF-19**

Sample ID:		HPFF-HPFF19-02C	HPFF-HPFF19-03A	HPFF-19-03C	HPFF-19-04A	HPFF-19-04C	USTHPFFC-MW19
Date Sampled:		08/13/02	02/18/03	08/27/03	02/14/04	09/08/04	04/18/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**16800**	**16300**	**7760**	**11300**	**10900**	**3720**
Ethylbenzene	550	**1580**	**1420**	**481**	**847**	**723**	**858**
Toluene	1000	**20600**	**17800**	**10600**	**13800**	**12300**	**8230**
Xylenes (total)	530	**7360**	**6630**	**12800**	**10300**	**7660**	**4350**
Total BTEX		**46340**	**42150**	**31641**	**36247**	**31583**	**17158**
PAH EPA 610							
Naphthalene	21	**261**	**220**	**266**	**216**	**316**	**235**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **HPFF-20**

Sample ID:		CLJ-0011-001-HPFF-20	CLJ-0011-018-HPFF-20	CLJ-0011-035-HPFF-20	CLJ-0011-54	HPFF-HPFF20-01C	HPFF-HPFF20-02A
Date Sampled:		01/27/99	10/15/99	07/20/00	02/01/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**2600**	**3400**	**4400**	**4700**	**2800**	**3070**
Ethylbenzene	550	**1000**	**500**	**770**	**430**	<400	**656**
Toluene	1000	**10000**	**8600**	**1100**	**9200**	**6400**	**11400**
Xylenes (total)	530	**3300**	**2200**	**3600**	**2900**	**2500**	**4570**
Total BTEX		**16900**	**14700**	**9870**	**17230**	**11700**	**19696**
PAH EPA 610							
Naphthalene	21	**180**	**50**	**130**	**62**	**56**	**207**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Shallow Well **HPFF-20**

Sample ID:		HPFF-HPFF20-02C	HPFF-HPFF20-03A	HPFF-20-03C	HPFF-HPFF20-04A	HPFF-HPFF20-04C	USYHPFFC-MW20	USTHPFFC-MW20
Date Sampled:		08/14/02	02/18/03	08/27/03	02/20/04	09/08/04	04/18/05	08/31/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602								
Benzene	1	**1250**	**3280**	**6020**	**6430**	**3030**	**13200**	**1030**
Ethylbenzene	550	**247**	**551**	**112**	**444**	**362**	**954**	**537**
Toluene	1000	**2090**	**7630**	**8790**	**9790**	**2770**	**13200**	**498**
Xylenes (total)	530	**813**	**2330**	**6770**	**6140**	**2920**	**7400**	**1810**
Total BTEX		**4400**	**13791**	**21692**	**22804**	**9082**	**34754**	**3875**
PAH EPA 610								
Naphthalene	21	**45.5**	**104**	<5.1	**98.9**	**68.6**	**238**	**101**
		Bold type indicates detectable concentrations.						
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).						

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Deep Well **GW-32-2**

Sample ID:		CLJ-0011-007-GW-32-2	CLJ-0011-024-GW-32-2	CLJ-0011-041-GW-32-2	CLJ-0011-57	HPFF-78GW322-01C	HPFF-78GW322-02A
Date Sampled:		01/28/99	10/15/99	07/20/00	01/31/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**170**	<1.0	**8.9**	**39**	**1.9**	**228**
Ethylbenzene	550	**18**	<1.0	<1.0	**30**	**2.9**	<10
Toluene	1000	**190**	<1.0	**1.1**	**86**	**8**	**95.2**
Xylenes (total)	530	**94**	<1.0	**1.2**	**120**	**9.2**	**984**
Total BTEX		**472**		**11.2**	**275**	**22**	**1307.2**
PAH EPA 610							
Naphthalene	21	**5.2**	<2.0	<2.0	**2.4**	<2.0	**16**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Deep Well **GW-32-2**

Sample ID:		HPFF-78GW322-02C	HPFF-78GW322-03A	GW-32-2-03C	GW-32-2-04A	GW-32-2-04C	IR78-GW32-2
Date Sampled:		08/14/02	02/21/03	08/25/03	02/23/04	09/13/04	04/06/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**13.1**	**109**	**176**	**325**	**321**	**604**
Ethylbenzene	550	**1.4**	**1.9**	<5.0	**16**	**37.4**	**15.4**
Toluene	1000	**15.5**	**1.7**	**3.5 J**	**43.9**	**149**	**48.4**
Xylenes (total)	530	**8.6**	**1.7 J**	<15	**55.7**	**178**	**110**
Total BTEX		**38.6**	**114.3**	**179.5**	**440.6**	**685.4**	**777.8**
PAH EPA 610							
Naphthalene	21	<5.2	<5.1	<5.1	**2.1 J**	**6.7**	**6.7**
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Deep Well **GW-32-3**

Sample ID:		CLJ-0011-008-GW-32-	CLJ-0011-025-GW-32-	CLJ-0011-042-GW-32-	CLJ-0011-58	HPFF-78GW323-01C	HPFF-78GW323-02A
Date Sampled:		01/28/99	10/15/99	07/19/00	01/31/01	07/22/01	02/09/02
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**84**	<1.0	**25**	**7.3**	**98**	**2.7**
Ethylbenzene	550	**5.6**	<1.0	**110**	**31**	<10	<1.0
Toluene	1000	**120**	<1.0	**310**	**82**	<10	**2.2**
Xylenes (total)	530	**35**	<1.0	**420**	**120**	<10	**4.1**
Total BTEX		**244.6**		**865**	**240.3**	**98**	**9**
PAH EPA 610							
Naphthalene	21	**2.7**	<2.0	**12**	**3.4**	<2.0	<5.0
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

CLJ - Hadnot Point - Bldg. 1115
Project #110385

Analytical Data Summary

SE Deep Well **GW-32-3**

Sample ID:		HPFF-78GW323-02C	HPFF-78GW323-03A	GW-32-3-03C	GW-32-3-04A	GW-32-3-04C	IR78-GW32-3
Date Sampled:		08/14/02	02/21/03	08/26/03	02/23/04	09/09/04	04/06/05
Analyte (ug/l)	**GWQS**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOA EPA 602							
Benzene	1	**124**	**7.1**	**0.64 J**	**20.9**	**28.9**	**8.2**
Ethylbenzene	550	**14**	**1.3**	**1.4**	**59.8**	**8.7**	**1.4**
Toluene	1000	**88.7**	**1.2**	**2.4**	**183**	**60.6**	**5.5**
Xylenes (total)	530	**153**	<3.0	**10.5**	**255**	**64**	**20.5**
Total BTEX		**379.7**	**9.6**	**14.94**	**518.7**	**162.2**	**35.6**
PAH EPA 610							
Naphthalene	21	**3.3 J**	**2.7 J**	<5.5	**8.7**	**2.4**	<4.9
		Bold type indicates detectable concentrations.					
		Shaded area indicates detectable concentrations above the groundwater quality standards (GWQS).					

J= estimated
B= detected in blank

Printed: 3/2/2006
Samples analyzed by STL or Accutest

APPENDIX C

LABORATORY GROUNDWATER ANALYTICAL REPORTS, NORTHWEST COMPOUND

Southeast
ACCUTEST.
Laboratories

03/29/05

Technical Report for

Field Support Service Inc

Camp Lejeune-NW

110385

Accutest Job Number: F30290

Sampling Date: 03/10/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **69**

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: F30290

Camp Lejeune-NW
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F30290-1	03/10/05	10:00	MM	03/11/05	AQ	Ground Water	UST1115-MW24
F30290-2	03/10/05	11:00	MM	03/11/05	AQ	Ground Water	UST1115-MW21
F30290-3	03/10/05	12:00	MM	03/11/05	AQ	Ground Water	UST1115-MW22
F30290-4	03/10/05	13:00	MM	03/11/05	AQ	Ground Water	UST1115-MW17
F30290-5	03/10/05	14:00	MM	03/11/05	AQ	Ground Water	UST1115-MW04
F30290-6	03/10/05	00:00	MM	03/11/05	AQ	Trip Blank Water	TRIP BLANK

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW24		
Lab Sample ID:	F30290-1	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR026684.D	20	03/18/05	RM	n/a	n/a	GQR1202
Run #2 [a]	QR026763.D	50	03/24/05	RM	n/a	n/a	GQR1205
Run #3 [b]	QR026657.D	1	03/16/05	RM	n/a	n/a	GQR1200

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml
Run #3	5.0 ml

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1030	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
74-83-9	Bromomethane	ND	20	10	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-00-3	Chloroethane	ND	20	10	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	20	10	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	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	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethene	ND	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
75-09-2	Methylene chloride	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.0	ug/l	
127-18-4	Tetrachloroethene	ND	20	10	ug/l	
108-88-3	Toluene	23.2	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	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:	UST1115-MW24		
Lab Sample ID:	F30290-1	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
79-01-6	Trichloroethene	ND	20	10	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	10	ug/l	
75-01-4	Vinyl chloride	ND	20	10	ug/l	
1330-20-7	Xylenes (total)	ND	60	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
352-33-0	1-Chloro-4-fluorobenzene	84%	89%	69%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	93%	92%	104%	70-123%
563-58-6	1,1-Dichloropropene	98%	97%	70%	86-112%
563-58-6	1,1-Dichloropropene	111%	111%	97%	86-112%

(a) All hits confirmed by GC/MS.
(b) Confirmation run.

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:	UST1115-MW24		
Lab Sample ID:	F30290-1	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY017045.D	1	03/14/05	KK	n/a	n/a	GXY593
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	119	0.50	0.30	ug/l	
74-84-0	Ethane	4.40	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	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:	UST1115-MW24		
Lab Sample ID:	F30290-1	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03038.D	1	03/16/05	AA	03/14/05	OP12702	GLL117
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	88%		42-123%
84-15-1	o-Terphenyl	95%		51-123%

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:	UST1115-MW24		
Lab Sample ID:	F30290-1	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	03/11/05 15:34	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	03/11/05 15:34	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	03/11/05 15:34	MP	EPA 300/SW846 9056
Sulfate	114	2.0	mg/l	1	03/11/05 15:34	MP	EPA 300/SW846 9056
Total Organic Carbon	5.3	1.0	mg/l	1	03/15/05 20:29	ANJ	415.1/9060 M/5310B M

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW21		
Lab Sample ID:	F30290-2	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR026660.D	1	03/16/05	RM	n/a	n/a	GQR1200
Run #2	QR026713.D	5	03/21/05	RM	n/a	n/a	GQR1203

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	338 [b]	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	11.9	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.94	1.0	0.50	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.68	1.0	0.50	ug/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	0.56	1.0	0.50	ug/l	J
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	1.4	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:	UST1115-MW21		
Lab Sample ID:	F30290-2	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	88%	89%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	107%	94%	70-123%
563-58-6	1,1-Dichloropropene	91%	95%	86-112%
563-58-6	1,1-Dichloropropene	112%	116%	86-112%

(a) All hits confirmed by GC/MS.
(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:	UST1115-MW21		
Lab Sample ID:	F30290-2	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY017046.D	1	03/14/05	KK	n/a	n/a	GXY593
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	12.1	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	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:	UST1115-MW21		
Lab Sample ID:	F30290-2	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LL03039.D	1	03/16/05	AA	03/14/05	OP12702	GLL117
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	2.9	4.8	1.9	ug/l	J
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	92%		42-123%
84-15-1	o-Terphenyl	100%		51-123%

(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:	UST1115-MW21		
Lab Sample ID:	F30290-2	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	03/11/05 16:25	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	03/11/05 16:25	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	03/11/05 16:25	MP	EPA 300/SW846 9056
Sulfate	33.4	2.0	mg/l	1	03/11/05 16:25	MP	EPA 300/SW846 9056
Total Organic Carbon	1.1	1.0	mg/l	1	03/15/05 20:36	ANJ	415.1/9060 M/5310B M

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW22		
Lab Sample ID:	F30290-3	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR026715.D	20	03/21/05	RM	n/a	n/a	GQR1203
Run #2	QR026764.D	50	03/24/05	RM	n/a	n/a	GQR1205

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2850 [a]	50	25	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
74-83-9	Bromomethane	ND	20	10	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-00-3	Chloroethane	ND	20	10	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	20	10	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	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	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
107-06-2	1,2-Dichloroethane	105	20	10	ug/l	
75-35-4	1,1-Dichloroethene	ND	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
75-09-2	Methylene chloride	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.0	ug/l	
127-18-4	Tetrachloroethene	ND	20	10	ug/l	
108-88-3	Toluene	20.3	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
79-01-6	Trichloroethene	ND	20	10	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:	UST1115-MW22		
Lab Sample ID:	F30290-3	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	10	ug/l	
75-01-4	Vinyl chloride	ND	20	10	ug/l	
1330-20-7	Xylenes (total)	ND	60	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	84%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	92%	97%	70-123%
563-58-6	1,1-Dichloropropene	89%	97%	86-112%
563-58-6	1,1-Dichloropropene	111%	109%	86-112%

(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:	UST1115-MW22		
Lab Sample ID:	F30290-3	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY017047.D	1	03/14/05	KK	n/a	n/a	GXY593
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	54.1	0.50	0.30	ug/l	
74-84-0	Ethane	22.2	1.0	0.60	ug/l	
74-85-1	Ethene	4.26	1.0	0.80	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:	UST1115-MW22		
Lab Sample ID:	F30290-3	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LL03040.D	1	03/16/05	AA	03/14/05	OP12702	GLL117
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	4.0	4.8	1.9	ug/l	J
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	88%		42-123%
84-15-1	o-Terphenyl	101%		51-123%

(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:	UST1115-MW22		
Lab Sample ID:	F30290-3	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	03/11/05 16:42	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	03/11/05 16:42	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	03/11/05 16:42	MP	EPA 300/SW846 9056
Sulfate	< 2.0	2.0	mg/l	1	03/11/05 16:42	MP	EPA 300/SW846 9056
Total Organic Carbon	5.9	1.0	mg/l	1	03/15/05 20:44	ANJ	415.1/9060 M/5310B M

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW17		
Lab Sample ID:	F30290-4	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR026714.D	5	03/21/05	RM	n/a	n/a	GQR1203
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	72.3	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	69.2	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	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:	UST1115-MW17		
Lab Sample ID:	F30290-4	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
1330-20-7	Xylenes (total)	ND	15	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	95%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%		70-123%
563-58-6	1,1-Dichloropropene	104%		86-112%
563-58-6	1,1-Dichloropropene	113%		86-112%

(a) All hits confirmed by GC/MS.

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:	UST1115-MW17		
Lab Sample ID:	F30290-4	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY017048.D	1	03/14/05	KK	n/a	n/a	GXY593
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	105	0.50	0.30	ug/l	
74-84-0	Ethane	3.15	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	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:	UST1115-MW17		
Lab Sample ID:	F30290-4	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LL03041.D	1	03/16/05	AA	03/14/05	OP12702	GLL117
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	11.6	4.8	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	6.6	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	4.8	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	6.3	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	93%		42-123%
84-15-1	o-Terphenyl	116%		51-123%

(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:	UST1115-MW17		
Lab Sample ID:	F30290-4	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	03/11/05 16:58	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	03/11/05 16:58	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	03/11/05 16:58	MP	EPA 300/SW846 9056
Sulfate [b]	4210	2.0	mg/l	1	03/11/05 16:58	MP	EPA 300/SW846 9056
Total Organic Carbon	12.8	1.0	mg/l	1	03/15/05 20:52	ANJ	415.1/9060 M/5310B M

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
(b) Estimated value, above calibration range.

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW04		
Lab Sample ID:	F30290-5	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR026663.D	1	03/16/05	RM	n/a	n/a	GQR1200
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	42.7	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	1.7	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	0.55	1.0	0.50	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW04		
Lab Sample ID:	F30290-5	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	104%		70-123%
563-58-6	1,1-Dichloropropene	98%		86-112%
563-58-6	1,1-Dichloropropene	108%		86-112%

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:	UST1115-MW04		
Lab Sample ID:	F30290-5	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY017050.D	1	03/14/05	KK	n/a	n/a	GXY593
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	58.2	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	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:	UST1115-MW04		
Lab Sample ID:	F30290-5	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03042.D	1	03/16/05	AA	03/14/05	OP12702	GLL117
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	84%		42-123%
84-15-1	o-Terphenyl	92%		51-123%

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:	UST1115-MW04		
Lab Sample ID:	F30290-5	Date Sampled:	03/10/05
Matrix:	AQ - Ground Water	Date Received:	03/11/05
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.10	0.10	mg/l	1	03/11/05 17:15	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	03/11/05 17:15	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	03/11/05 17:15	MP	EPA 300/SW846 9056
Sulfate	33.9	2.0	mg/l	1	03/11/05 17:15	MP	EPA 300/SW846 9056
Total Organic Carbon	6.5	1.0	mg/l	1	03/15/05 21:26	ANJ	415.1/9060 M/5310B M

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F30290-6	Date Sampled:	03/10/05
Matrix:	AQ - Trip Blank Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR026680.D	1	03/18/05	RM	n/a	n/a	GQR1202
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	F30290-6	Date Sampled:	03/10/05
Matrix:	AQ - Trip Blank Water	Date Received:	03/11/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	91%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	95%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	113%		86-112%

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-NW-031005

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD F30290

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - NW	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
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: VOA 601/602	PAH 610	Dissolved Gasses RSK-175	NO3,NO2,NO3-NO2 BY 353.2-354.1	SO4 BY 375.4	TOC BY 415.1
1	UST1115-MW24	3/10/05	10:00		X	UST1115-MW24	10	X	X	X	X	X	X
2	UST1115-MW21	3/10/05	11:00		X	UST1115-MW21	10	X	X	X	X	X	X
3	UST1115-MW22	3/10/05	12:00		X	UST1115-MW22	10	X	X	X	X	X	X
4	UST1115-MW17	3/10/05	13:00		X	UST1115-MW17	10	X	X	X	X	X	X
5	UST1115-MW04	3/10/05	14:00		X	UST1115-MW04	10	X	X	X	X	X	X
6	Trip Blank- 031005	3/10/05	-----		X	Trip Blank	2	X					
7													
8													
9													
10													
11													

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 6		Fed EX 8508 6149 4200	3/10/05	16:00	14 Day TAT
2		FX		3/11/05	9:00	Z.8

F30290: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F30290 CLIENT: Shaw E+I PROJECT: Camp Lejeune - NW

DATE/TIME RECEIVED: 3/11/05 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.8

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
- [ ] 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
- [ ] 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

SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: 3/11/05 TECHNICIAN SIGNATURE/DATE: Shawn Carson / 3-11-05

ASBD02/04/05

F30290: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST.
Laboratories

04/12/05

Technical Report for

Field Support Service Inc

Camp Lejeune-NW

110385

Accutest Job Number: F30543

Sampling Date: 03/22/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **70**

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: F30543

Camp Lejeune-NW
Project No: 110385

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F30543-1	03/22/05	09:45 MM	03/23/05	AQ	Ground Water	UST1115-MW18
F30543-2	03/22/05	11:00 MM	03/23/05	AQ	Ground Water	UST1115GT-MW09
F30543-3	03/22/05	11:00 MM	03/23/05	AQ	Ground Water	UST1115GT-MW09D
F30543-4	03/22/05	12:00 MM	03/23/05	AQ	Ground Water	UST1115-MW02
F30543-5	03/22/05	13:00 MM	03/23/05	AQ	Ground Water	UST1115-MW13
F30543-6	03/22/05	14:00 MM	03/23/05	AQ	Ground Water	UST1115-MW25
F30543-7	03/22/05	00:00 MM	03/23/05	AQ	Trip Blank Water	TRIP BLANK-032205

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW18		
Lab Sample ID:	F30543-1	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR027007.D	1	04/05/05	RM	n/a	n/a	GQR1215
Run #2 [b]	QR027014.D	5	04/05/05	RM	n/a	n/a	GQR1215

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene [c]	9.6	1.0	0.50	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	306 [d]	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	11.3	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	4.6	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether [e]	240 [d]	5.0	2.5	ug/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	2.0	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW18		
Lab Sample ID:	F30543-1	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	9.6	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%	98%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	89%	91%	70-123%
563-58-6	1,1-Dichloropropene	96%	99%	86-112%
563-58-6	1,1-Dichloropropene	103%	103%	86-112%

(a) All hits confirmed by GC/MS.
(b) No sample available for reanalysis.
(c) CCV outside of control limits; results may be biased high.
(d) Result is from Run# 2
(e) CCV outside of control limits; results may be biased low.

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:	UST1115-MW18		
Lab Sample ID:	F30543-1	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY017172.D	1	03/25/05	KK	n/a	n/a	GXY599
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	4.16	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	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:	UST1115-MW18		
Lab Sample ID:	F30543-1	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03145.D	1	03/24/05	AA	03/23/05	OP12779	GLL121
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	110%		42-123%
84-15-1	o-Terphenyl	103%		51-123%

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:	UST1115-MW18		
Lab Sample ID:	F30543-1	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	03/23/05 14:23	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	03/23/05 14:23	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	03/23/05 14:23	MP	EPA 300/SW846 9056
Sulfate	214	2.0	mg/l	1	03/23/05 14:23	MP	EPA 300/SW846 9056
Total Organic Carbon	26.0	1.0	mg/l	1	03/29/05 17:58	ANJ	415.1/9060 M/5310B M

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115GT-MW09		
Lab Sample ID:	F30543-2	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR027008.D	1	04/05/05	RM	n/a	n/a	GQR1215
Run #2	QR027015.D	1	04/05/05	RM	n/a	n/a	GQR1215

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	4.1	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether [b]	0.52	1.0	0.50	ug/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115GT-MW09		
Lab Sample ID:	F30543-2	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	95%	96%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	95%	102%	70-123%
563-58-6	1,1-Dichloropropene	98%	98%	86-112%
563-58-6	1,1-Dichloropropene	101%	102%	86-112%

(a) Confirmed by reanalysis.
(b) CCV outside of control limits; results may be biased low.

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:	UST1115GT-MW09		
Lab Sample ID:	F30543-2	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY017185.D	1	03/30/05	KK	n/a	n/a	GXY600
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	33.5	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	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:	UST1115GT-MW09		
Lab Sample ID:	F30543-2	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03146.D	1	03/24/05	AA	03/23/05	OP12779	GLL121
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	91%		42-123%
84-15-1	o-Terphenyl	98%		51-123%

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:	UST1115GT-MW09		
Lab Sample ID:	F30543-2	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	03/23/05 14:41	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	03/23/05 14:41	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	03/23/05 14:41	MP	EPA 300/SW846 9056
Sulfate	157	2.0	mg/l	1	03/23/05 14:41	MP	EPA 300/SW846 9056
Total Organic Carbon	2.3	1.0	mg/l	1	03/29/05 18:08	ANJ	415.1/9060 M/5310B M

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115GT-MW09D		
Lab Sample ID:	F30543-3	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027009.D	1	04/05/05	RM	n/a	n/a	GQR1215
Run #2 [a]	QR027126.D	1	04/08/05	JG	n/a	n/a	GQR1221

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.54 [b]	1.0	0.50	ug/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115GT-MW09D		
Lab Sample ID:	F30543-3	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	95%	100%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	97%	97%	70-123%
563-58-6	1,1-Dichloropropene	97%	100%	86-112%
563-58-6	1,1-Dichloropropene	102%	102%	86-112%

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values.
(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:	UST1115GT-MW09D		
Lab Sample ID:	F30543-3	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY017186.D	1	03/30/05	KK	n/a	n/a	GXY600
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	28.4	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	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:	UST1115GT-MW09D		
Lab Sample ID:	F30543-3	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03147.D	1	03/24/05	AA	03/23/05	OP12779	GLL121
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.9	ug/l	
120-12-7	Anthracene	ND	4.9	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.9	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.9	1.9	ug/l	
86-73-7	Fluorene	ND	4.9	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	1.9	ug/l	
91-20-3	Naphthalene	ND	4.9	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.9	1.9	ug/l	
129-00-0	Pyrene	ND	4.9	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	95%		42-123%
84-15-1	o-Terphenyl	103%		51-123%

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:	UST1115GT-MW09D		
Lab Sample ID:	F30543-3	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	03/23/05 14:58	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	03/23/05 14:58	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	03/23/05 14:58	MP	EPA 300/SW846 9056
Sulfate	155	2.0	mg/l	1	03/23/05 14:58	MP	EPA 300/SW846 9056
Total Organic Carbon	4.3	1.0	mg/l	1	03/31/05 21:00	ANJ	415.1/9060 M/5310B M

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW02		
Lab Sample ID:	F30543-4	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027010.D	1	04/05/05	RM	n/a	n/a	GQR1215
Run #2 [a]	QR027068.D	1	04/06/05	RM	n/a	n/a	GQR1218

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	31.1 [b]	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	3.3	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW02		
Lab Sample ID:	F30543-4	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	94%	93%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%	94%	70-123%
563-58-6	1,1-Dichloropropene	96%	99%	86-112%
563-58-6	1,1-Dichloropropene	105%	106%	86-112%

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values.
(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:	UST1115-MW02		
Lab Sample ID:	F30543-4	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY017187.D	1	03/30/05	KK	n/a	n/a	GXY600
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.50	0.30	ug/l	
74-84-0	Ethane	ND	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	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:	UST1115-MW02		
Lab Sample ID:	F30543-4	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03148.D	1	03/24/05	AA	03/23/05	OP12779	GLL121
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	93%		42-123%
84-15-1	o-Terphenyl	100%		51-123%

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:	UST1115-MW02		
Lab Sample ID:	F30543-4	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	0.56	0.10	mg/l	1	03/23/05 15:16	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	0.56	0.20	mg/l	1	03/23/05 15:16	MP	SM18 4500NO3E
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	03/23/05 15:16	MP	EPA 300/SW846 9056
Sulfate	49.2	2.0	mg/l	1	03/23/05 15:16	MP	EPA 300/SW846 9056
Total Organic Carbon	1.6	1.0	mg/l	1	03/31/05 21:07	ANJ	415.1/9060 M/5310B M

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW13		
Lab Sample ID:	F30543-5	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027011.D	1	04/05/05	RM	n/a	n/a	GQR1215
Run #2 [a]	QR027069.D	1	04/06/05	RM	n/a	n/a	GQR1218

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	82.1 [b]	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	74.4	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	2.6	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	36.3	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether [c]	1.5	1.0	0.50	ug/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	0.67	1.0	0.50	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW13		
Lab Sample ID:	F30543-5	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	11.8	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	97%	98%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	97%	96%	70-123%
563-58-6	1,1-Dichloropropene	95%	98%	86-112%
563-58-6	1,1-Dichloropropene	103%	102%	86-112%

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values.
(b) Result is from Run# 2
(c) CCV outside of control limits; results may be biased low.

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:	UST1115-MW13		
Lab Sample ID:	F30543-5	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY017190.D	1	03/30/05	KK	n/a	n/a	GXY600
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	40.5	0.50	0.30	ug/l	
74-84-0	Ethane	6.7	1.0	0.60	ug/l	
74-85-1	Ethene	ND	1.0	0.80	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:	UST1115-MW13		
Lab Sample ID:	F30543-5	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03149.D	1	03/24/05	AA	03/23/05	OP12779	GLL121
Run #2	LL03156.D	5	03/25/05	AA	03/23/05	OP12779	GLL122

	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	14.5	4.8	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	3.0	4.8	1.9	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	129 [a]	24	9.6	ug/l	
90-12-0	1-Methylnaphthalene	17.6	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	30.4	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	100%	94%	42-123%
84-15-1	o-Terphenyl	131% [b]	112%	51-123%

(a) Result is from Run# 2
(b) Outside control 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:	UST1115-MW13		
Lab Sample ID:	F30543-5	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	03/23/05 16:09	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	03/23/05 16:09	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	03/23/05 16:09	MP	EPA 300/SW846 9056
Sulfate	4330	50	mg/l	25	03/28/05 14:26	MP	EPA 300/SW846 9056
Total Organic Carbon	19.6	1.0	mg/l	1	03/31/05 21:14	ANJ	415.1/9060 M/5310B M

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW25		
Lab Sample ID:	F30543-6	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027016.D	50	04/05/05	RM	n/a	n/a	GQR1215
Run #2 [a]	QR027064.D	100	04/06/05	RM	n/a	n/a	GQR1218

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5170 [b]	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	50	25	ug/l	
75-25-2	Bromoform	ND	50	25	ug/l	
74-83-9	Bromomethane	ND	50	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
124-48-1	Dibromochloromethane	ND	50	20	ug/l	
75-00-3	Chloroethane	ND	50	25	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	50	25	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	ND [b]	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	25	ug/l	
107-06-2	1,2-Dichloroethane	94.0	50	25	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	47.3	50	25	ug/l	J
75-09-2	Methylene chloride	ND	250	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	10	ug/l	
127-18-4	Tetrachloroethene	ND	50	25	ug/l	
108-88-3	Toluene	418	50	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	25	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW25		
Lab Sample ID:	F30543-6	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	50	25	ug/l	
75-01-4	Vinyl chloride	ND	50	25	ug/l	
1330-20-7	Xylenes (total)	157	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%	94%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	99%	95%	70-123%
563-58-6	1,1-Dichloropropene	93%	98%	86-112%
563-58-6	1,1-Dichloropropene	106%	102%	86-112%

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values.
(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:	UST1115-MW25		
Lab Sample ID:	F30543-6	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	RSKSOP-147/175	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY017191.D	1	03/30/05	KK	n/a	n/a	GXY600
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	104	0.50	0.30	ug/l	
74-84-0	Ethane	2.50	1.0	0.60	ug/l	
74-85-1	Ethene	16.3	1.0	0.80	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:	UST1115-MW25		
Lab Sample ID:	F30543-6	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03159.D	1	03/25/05	AA	03/23/05	OP12779	GLL122
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	5.0	2.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	2.0	ug/l	
120-12-7	Anthracene	ND	5.0	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	2.0	ug/l	
218-01-9	Chrysene	ND	5.0	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	2.0	ug/l	
86-73-7	Fluorene	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
91-20-3	Naphthalene	3.3	5.0	2.0	ug/l	J
90-12-0	1-Methylnaphthalene	ND	5.0	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	2.0	ug/l	
129-00-0	Pyrene	ND	5.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	91%		42-123%
84-15-1	o-Terphenyl	97%		51-123%

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:	UST1115-MW25		
Lab Sample ID:	F30543-6	Date Sampled:	03/22/05
Matrix:	AQ - Ground Water	Date Received:	03/23/05
		Percent Solids:	n/a
Project:	Camp Lejeune-NW		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	< 0.10	0.10	mg/l	1	03/23/05 16:26	MP	EPA 300/SW846 9056
Nitrogen, Nitrate + Nitrite [a]	< 0.20	0.20	mg/l	1	03/23/05 16:26	MP	SM18 4500NO3E
Nitrogen, Nitrite	< 0.10	0.10	mg/l	1	03/23/05 16:26	MP	EPA 300/SW846 9056
Sulfate	< 2.0	2.0	mg/l	1	03/23/05 16:26	MP	EPA 300/SW846 9056
Total Organic Carbon	8.5	1.0	mg/l	1	03/31/05 21:20	ANJ	415.1/9060 M/5310B M

(a) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F30543

COC Number:
110385-NW-032205

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - NW (HPFF)	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
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	VOA 601/602	PAH 610	Dissolved Gasses RSK-175	NO3,NO2,NO3-NO2 BY 353.2-354.1	SO4 BY 375.4	TOC BY 415.1	Analysis Desired
1	UST1115-MW18	3/22/05	9:45		X	UST1115-MW18	11	X	X	X	X	X	X	
2	UST1115GT-MW09	3/22/05	11:00		X	UST1115GT-MW09	11	X	X	X	X	X	X	
3	UST1115GT-MW09D	3/22/05	11:00		X	UST1115GT-MW09D	11	X	X	X	X	X	X	
4	UST1115-MW02	3/22/05	12:00		X	UST1115-MW02	11	X	X	X	X	X	X	
5	UST1115-MW13	3/22/05	13:00		X	UST1115-MW13	11	X	X	X	X	X	X	
6	UST1115-MW25	3/22/05	14:00		X	UST1115-MW25	11	X	X	X	X	X	X	
7	Trip Blank- 032205	3/22/05	----		X	Trip Blank	2	X						
8														
9														
10														
11														

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 – 7		UPS 1Z71V 098 01 9993 3908, 1Z71V 098 019563 6497	3/22/05	16:00	14 Day TAT
2		FX 3-23-05 UPS	Steve Brown	3-23-05	9:00	2.0 2.2

F30543: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories
F30543

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F30543 CLIENT: Shaw E&E PROJECT: Camp Lejeune #110346

DATE/TIME RECEIVED: 3-23-05/9:00 # OF COOLERS RECEIVED: 2 COOLER TEMPS: 2.0, 2.2

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 3-23-05 1Z71V0940195636497

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

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

SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE Steven Brown/3-23-05 TECHNICIAN SIGNATURE/DATE

ASBD02/04/05

3.1 C

F30543: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST.
Laboratories

04/11/05

Technical Report for

Field Support Service Inc

Camp Lejeune-NW

110385

Accutest Job Number: F30621

Sampling Date: 03/24/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **38**

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: F30621

Camp Lejeune-NW
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F30621-1	03/24/05	09:00	MM	03/25/05	AQ	Ground Water	UST1115-MW23
F30621-2	03/24/05	10:00	MM	03/25/05	AQ	Ground Water	IR78-GW22-02
F30621-3	03/24/05	10:00	MM	03/25/05	AQ	Ground Water	IR78-GW22-02D
F30621-4	03/24/05	12:15	MM	03/25/05	AQ	Ground Water	UST1115GT-MW07
F30621-5	03/24/05	13:00	MM	03/25/05	AQ	Ground Water	UST1115GT-MW01
F30621-6	03/24/05	14:00	MM	03/25/05	AQ	Ground Water	UST1115-MW01
F30621-7	03/24/05	00:00	MM	03/25/05	AQ	Trip Blank Water	TRIP BLANK-032405

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115-MW23		
Lab Sample ID:	F30621-1	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR027116.D	50	04/07/05	JG	n/a	n/a	GQR1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3120	50	25	ug/l	
75-27-4	Bromodichloromethane	ND	50	25	ug/l	
75-25-2	Bromoform	ND	50	25	ug/l	
74-83-9	Bromomethane	ND	50	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
124-48-1	Dibromochloromethane	ND	50	20	ug/l	
75-00-3	Chloroethane	ND	50	25	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	50	25	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	ND	50	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	25	ug/l	
107-06-2	1,2-Dichloroethane	875	50	25	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	54.3	50	25	ug/l	
75-09-2	Methylene chloride	ND	250	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	10	ug/l	
127-18-4	Tetrachloroethene	ND	50	25	ug/l	
108-88-3	Toluene	346	50	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	25	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW23		
Lab Sample ID:	F30621-1	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	50	25	ug/l	
75-01-4	Vinyl chloride	ND	50	25	ug/l	
1330-20-7	Xylenes (total)	208	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	97%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%		70-123%
563-58-6	1,1-Dichloropropene	99%		86-112%
563-58-6	1,1-Dichloropropene	103%		86-112%

(a) Confirmed by GC/MS

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:	UST1115-MW23		
Lab Sample ID:	F30621-1	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03188.D	1	04/01/05	AA	03/30/05	OP12850	GLL125
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	77%		42-123%
84-15-1	o-Terphenyl	88%		51-123%

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:	IR78-GW22-02		
Lab Sample ID:	F30621-2	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027107.D	1	04/07/05	JG	n/a	n/a	GQR1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	78.5	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	8.4	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	1.4	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	12.6	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	1.7	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:	IR78-GW22-02		
Lab Sample ID:	F30621-2	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	6.3	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	98%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%		70-123%
563-58-6	1,1-Dichloropropene	99%		86-112%
563-58-6	1,1-Dichloropropene	101%		86-112%

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:	IR78-GW22-02		
Lab Sample ID:	F30621-2	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03189.D	1	04/01/05	AA	03/30/05	OP12850	GLL125
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	98%		42-123%
84-15-1	o-Terphenyl	110%		51-123%

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:	IR78-GW22-02D		
Lab Sample ID:	F30621-3	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027109.D	1	04/07/05	JG	n/a	n/a	GQR1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	74.1	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	8.1	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	1.3	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	11.9	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	1.7	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:	IR78-GW22-02D		
Lab Sample ID:	F30621-3	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	5.9	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	98%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	102%		70-123%
563-58-6	1,1-Dichloropropene	98%		86-112%
563-58-6	1,1-Dichloropropene	102%		86-112%

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:	IR78-GW22-02D		
Lab Sample ID:	F30621-3	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03190.D	1	04/01/05	AA	03/30/05	OP12850	GLL125
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	71%		42-123%
84-15-1	o-Terphenyl	88%		51-123%

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:	UST1115GT-MW07		
Lab Sample ID:	F30621-4	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027110.D	1	04/07/05	JG	n/a	n/a	GQR1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	11.0	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	10.9	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.69	1.0	0.50	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	2.2	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115GT-MW07		
Lab Sample ID:	F30621-4	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.2	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	99%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	99%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	102%		86-112%

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:	UST1115GT-MW07		
Lab Sample ID:	F30621-4	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03191.D	1	04/01/05	AA	03/30/05	OP12850	GLL125
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	72%		42-123%
84-15-1	o-Terphenyl	79%		51-123%

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:	UST1115GT-MW01		
Lab Sample ID:	F30621-5	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027111.D	1	04/07/05	JG	n/a	n/a	GQR1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	35.8	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	1.4	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.1	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	6.8	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	1.3	1.0	0.50	ug/l	
108-88-3	Toluene	1.8	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	1.3	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:	UST1115GT-MW01		
Lab Sample ID:	F30621-5	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	3.7	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	102%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	104%		86-112%

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:	UST1115GT-MW01		
Lab Sample ID:	F30621-5	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03192.D	1	04/01/05	AA	03/30/05	OP12850	GLL125
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	71%		42-123%
84-15-1	o-Terphenyl	78%		51-123%

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:	UST1115-MW01		
Lab Sample ID:	F30621-6	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027112.D	1	04/07/05	JG	n/a	n/a	GQR1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.8	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	1.1	1.0	0.50	ug/l	
108-88-3	Toluene	0.71	1.0	0.50	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW01		
Lab Sample ID:	F30621-6	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	99%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	97%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	104%		86-112%

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:	UST1115-MW01		
Lab Sample ID:	F30621-6	Date Sampled:	03/24/05
Matrix:	AQ - Ground Water	Date Received:	03/25/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03193.D	1	04/01/05	AA	03/30/05	OP12850	GLL125
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	98%		42-123%
84-15-1	o-Terphenyl	106%		51-123%

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-032405		
Lab Sample ID:	F30621-7	Date Sampled:	03/24/05
Matrix:	AQ - Trip Blank Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027113.D	1	04/07/05	JG	n/a	n/a	GQR1220
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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-032405		
Lab Sample ID:	F30621-7	Date Sampled:	03/24/05
Matrix:	AQ - Trip Blank Water	Date Received:	03/25/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	99%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	103%		86-112%

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

F30621

COC Number:
110385-NW-032405

CHAIN-OF-CUSTODY RECORD

Shaw
Shaw Environmental & Infrastructure, Inc.

3.1
3

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - NW	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
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	VOA 601/602	PAH 610	Dissolved Gasses RSK-175	NO3,NO2,NO3-NO2 BY 353.2-354.1	SO4 BY 375.4	TOC BY 415.1	Analysis Desired
1	UST1115-MW23	3/24/05	9:00		X	UST1115-MW23	5	X	X					
2	IR78-GW22-02	3/24/05	10:00		X	IR78-GW22-02	5	X	X					
3	IR78-GW22-02D	3/24/05	10:00		X	IR78-GW22-02D	5	X	X					
4	UST1115GT-MW07	3/24/05	12:15		X	UST1115GT-MW07	5	X	X					
5	UST1115GT-MW01	3/24/05	13:00		X	UST1115GT-MW01	5	X	X					
6	UST1115-MW01	3/24/05	14:00		X	UST1115-MW01	5	X	X					
7	Trip Blank- 032405	3/24/05	-----		X	Trip Blank	2	X						
8														
9														
10														

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 7		UPS 1Z71V 098 01 9480 1087	3/24/05	16:00	14 Day TAT
2	FX	FX		3/25/05	09:0	

1 · 8

F30621: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F30621 CLIENT: SHAW E+I PROJECT: 110385

DATE/TIME RECEIVED: 3/25/05 08:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.8

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

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

SOIL INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE Carlos Ky 3/25/05 TECHNICIAN SIGNATURE/DATE Steven Creamer 3-26-05

ASBD02/04/05

3.1 3

F30621: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST.
Laboratories

09/06/05

Technical Report for

Field Support Service Inc

Camp Lejeune-NW

110385

Accutest Job Number: F34135

Sampling Date: 08/17/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **44**

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: F34135

Camp Lejeune-NW
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F34135-1	08/17/05	12:20	RK	08/18/05	AQ	Ground Water	UST1115GT-MW01
F34135-2	08/17/05	13:40	RK	08/18/05	AQ	Ground Water	UST1115GT-MW09
F34135-3	08/17/05	13:00	RK	08/18/05	AQ	Ground Water	UST1115GT-MW07
F34135-4	08/17/05	11:10	RK	08/18/05	AQ	Ground Water	UST1115GT-MW13
F34135-5	08/17/05	14:30	RK	08/18/05	AQ	Ground Water	UST1115GT-MW23
F34135-6	08/17/05	10:30	RK	08/18/05	AQ	Ground Water	UST1115GT-MW25
F34135-7	08/17/05	00:00	RK	08/18/05	AQ	Trip Blank Water	UST1115-TB-081705

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST1115GT-MW01		
Lab Sample ID:	F34135-1	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028878.D	5	08/29/05	JG	n/a	n/a	GQR1297
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	268	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	5.1	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	2.6	5.0	2.5	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	6.8	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	2.7	5.0	2.5	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	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:	UST1115GT-MW01		
Lab Sample ID:	F34135-1	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
1330-20-7	Xylenes (total)	ND	15	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	101%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	104%		64-121%
563-58-6	1,1-Dichloropropene	96%		84-119%
563-58-6	1,1-Dichloropropene	104%		84-119%

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:	UST1115GT-MW01		
Lab Sample ID:	F34135-1	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007736.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
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	6.5	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	1.0	1.9	0.48	ug/l	J
91-57-6	2-Methylnaphthalene	5.2	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	109%		36-114%
92-94-4	p-Terphenyl	93%		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:	UST1115GT-MW09		
Lab Sample ID:	F34135-2	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028851.D	1	08/27/05	JG	n/a	n/a	GQR1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115GT-MW09		
Lab Sample ID:	F34135-2	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	100%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	100%		64-121%
563-58-6	1,1-Dichloropropene	99%		84-119%
563-58-6	1,1-Dichloropropene	103%		84-119%

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:	UST1115GT-MW09		
Lab Sample ID:	F34135-2	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007737.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	ND	1.9	0.94	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		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:	UST1115GT-MW07		
Lab Sample ID:	F34135-3	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR028852.D	1	08/27/05	JG	n/a	n/a	GQR1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	22.7	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	2.9	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115GT-MW07		
Lab Sample ID:	F34135-3	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	99%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	100%		64-121%
563-58-6	1,1-Dichloropropene	98%		84-119%
563-58-6	1,1-Dichloropropene	105%		84-119%

(a) All hits confirmed by GC/MS.

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:	UST1115GT-MW07		
Lab Sample ID:	F34135-3	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007739.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	ND	1.9	0.94	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	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:	UST1115GT-MW13		
Lab Sample ID:	F34135-4	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028879.D	10	08/29/05	JG	n/a	n/a	GQR1297
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	61.6	10	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
74-83-9	Bromomethane	ND	10	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-00-3	Chloroethane	ND	10	5.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	10	5.0	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane	71.7	10	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	31.2	10	5.0	ug/l	
75-09-2	Methylene chloride	ND	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
79-01-6	Trichloroethene	ND	10	5.0	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:	UST1115GT-MW13		
Lab Sample ID:	F34135-4	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	10	5.0	ug/l	
1330-20-7	Xylenes (total)	ND	30	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	100%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	104%		64-121%
563-58-6	1,1-Dichloropropene	97%		84-119%
563-58-6	1,1-Dichloropropene	103%		84-119%

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:	UST1115GT-MW13		
Lab Sample ID:	F34135-4	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007740.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
Run #2 [a]	PP007764.D	2	09/01/05	MRE	08/24/05	OP14215	GPP285

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2	1060 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	16.5	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	3.3	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	108 [b]	3.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	21.4	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	35.9	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%	90%	36-114%
92-94-4	p-Terphenyl	93%	90%	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:	UST1115GT-MW23		
Lab Sample ID:	F34135-5	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028855.D	100	08/27/05	JG	n/a	n/a	GQR1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5240	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	930	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	91.7	100	50	ug/l	J
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	653	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	ND	100	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:	UST1115GT-MW23		
Lab Sample ID:	F34135-5	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	ND	100	50	ug/l	
1330-20-7	Xylenes (total)	315	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	99%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	102%		64-121%
563-58-6	1,1-Dichloropropene	97%		84-119%
563-58-6	1,1-Dichloropropene	105%		84-119%

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:	UST1115GT-MW23		
Lab Sample ID:	F34135-5	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007765.D	1	09/01/05	MRE	08/24/05	OP14215	GPP285
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	1.7	1.9	0.94	ug/l	J
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		36-114%
92-94-4	p-Terphenyl	90%		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:	UST1115GT-MW25		
Lab Sample ID:	F34135-6	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR028856.D	50	08/27/05	JG	n/a	n/a	GQR1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4990	50	25	ug/l	
75-27-4	Bromodichloromethane	ND	50	25	ug/l	
75-25-2	Bromoform	ND	50	25	ug/l	
74-83-9	Bromomethane	ND	50	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
124-48-1	Dibromochloromethane	ND	50	20	ug/l	
75-00-3	Chloroethane	ND	50	25	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	50	25	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	ND	50	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	25	ug/l	
107-06-2	1,2-Dichloroethane	185	50	25	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	58.3	50	25	ug/l	
75-09-2	Methylene chloride	ND	250	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	10	ug/l	
127-18-4	Tetrachloroethene	ND	50	25	ug/l	
108-88-3	Toluene	678	50	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	25	ug/l	
79-01-6	Trichloroethene	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:	UST1115GT-MW25		
Lab Sample ID:	F34135-6	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	50	25	ug/l	
75-01-4	Vinyl chloride	ND	50	25	ug/l	
1330-20-7	Xylenes (total)	216	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	97%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	101%		64-121%
563-58-6	1,1-Dichloropropene	97%		84-119%
563-58-6	1,1-Dichloropropene	104%		84-119%

(a) All hits confirmed by GC/MS.

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:	UST1115GT-MW25		
Lab Sample ID:	F34135-6	Date Sampled:	08/17/05
Matrix:	AQ - Ground Water	Date Received:	08/18/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007742.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	1.1	1.9	0.94	ug/l	J
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		36-114%
92-94-4	p-Terphenyl	91%		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:	UST1115-TB-081705		
Lab Sample ID:	F34135-7	Date Sampled:	08/17/05
Matrix:	AQ - Trip Blank Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028857.D	1	08/27/05	JG	n/a	n/a	GQR1295
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115-TB-081705		
Lab Sample ID:	F34135-7	Date Sampled:	08/17/05
Matrix:	AQ - Trip Blank Water	Date Received:	08/18/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	99%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	102%		64-121%
563-58-6	1,1-Dichloropropene	99%		84-119%
563-58-6	1,1-Dichloropropene	105%		84-119%

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

F34135

COC Number:
110385-NW-08172005

CHAIN-OF-CUSTODY RECORD

Shaw
Shaw Environmental & Infrastructure, Inc.

3.1
3

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390 | Receiving Lab: ACCUTEST

Project Name	Project Location	Project Number	Contact	PO Number	Client Rep	Project Manager
CAMP LEJEUNE - NW	CAMP LEJEUNE, NC	110385	Mark Martin	FSSI	US NAVY - LANTDIV	Ron Kenyon

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: VOA 601/602	Analysis Desired: PAH 610
1	UST1115GT-MW01	8/17/2005	12:20		X	UST1115GT-MW01	5	X	X
2	UST1115GT-MW09	8/17/2005	13:40		X	UST1115GT-MW09	5	X	X
3	UST1115GT-MW07	8/17/2005	13:00		X	UST1115GT-MW07	5	X	X
4	UST1115-MW13	8/17/2005	11:10		X	UST1115-MW13	5	X	X
5	UST1115-MW23	8/17/2005	14:30		X	UST1115-MW23	5	X	X
6	UST1115-MW25	8/17/2005	10:30		X	UST1115-MW25	5	X	X
7	UST1115-TB-081705	8/17/05			X	TRIP BLANK	2	X	

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1-7		UPS Tracking #: 1Z71V0981592696447 1Z71V0981591308055 1Z71V0981590268038		16:00	14 Day TAT
2		UPS		8/18	0814	

2.6

F34135: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F34135 CLIENT: SHAW E+I PROJECT: US NAVY-CANTON

DATE/TIME RECEIVED: 8/18/05 0800 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.6

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

AIRBILL NUMBERS: 1Z 711 098 15 9269 6447

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [X] 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
- [ ] 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 ? 0

NUMBER OF 5035 FIELD KITS ? 0

SUMMARY OF COMMENTS: times missing from sample labels.

TECHNICIAN SIGNATURE/DATE CP 8/18/05 TECHNICIAN SIGNATURE/DATE [signature] 8-18-05

ASRD06/22/05

3.1 3

F34135: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST.
Laboratories

09/06/05

Technical Report for

Field Support Service Inc

Camp Lejeune-NW

110385

Accutest Job Number: F34226

Sampling Date: 08/18/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **56**

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: F34226

Camp Lejeune-NW
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F34226-1	08/18/05	09:58	RK	08/20/05	AQ	Ground Water	UST111578-GW22-02
F34226-2	08/18/05	10:03	RK	08/20/05	AQ	Ground Water	UST111578-GW22-02D
F34226-3	08/18/05	10:25	RK	08/20/05	AQ	Ground Water	UST1115-MW01
F34226-4	08/18/05	10:40	RK	08/20/05	AQ	Ground Water	UST1115-MW01D
F34226-5	08/18/05	14:10	RK	08/20/05	AQ	Ground Water	UST1115-MW02
F34226-6	08/18/05	16:55	RK	08/20/05	AQ	Ground Water	UST1115-MW04
F34226-7	08/18/05	16:16	RK	08/20/05	AQ	Ground Water	UST1115-MW17
F34226-8	08/18/05	13:17	RK	08/20/05	AQ	Ground Water	UST1115-MW21
F34226-9	08/18/05	15:30	RK	08/20/05	AQ	Ground Water	UST1115-MW22
F34226-10	08/18/05	12:40	RK	08/20/05	AQ	Ground Water	UST1115-MW24
F34226-11	08/18/05	00:00	RK	08/20/05	AQ	Trip Blank Water	TRIP BLANK-UST1115-81805

Accutest Laboratories

Report of Analysis

Client Sample ID:	UST111578-GW22-02		
Lab Sample ID:	F34226-1	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028941.D	1	09/01/05	JG	n/a	n/a	GQR1300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.7	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	2.1	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:	UST111578-GW22-02		
Lab Sample ID:	F34226-1	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	103%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	105%		64-121%
563-58-6	1,1-Dichloropropene	95%		84-119%
563-58-6	1,1-Dichloropropene	102%		84-119%

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:	UST111578-GW22-02		
Lab Sample ID:	F34226-1	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007743.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	ND	1.9	0.94	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		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:	UST111578-GW22-02D		
Lab Sample ID:	F34226-2	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028913.D	1	08/31/05	JG	n/a	n/a	GQR1298
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4.7	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene [a]	2.0	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:	UST111578-GW22-02D		
Lab Sample ID:	F34226-2	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	104%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	108%		64-121%
563-58-6	1,1-Dichloropropene	96%		84-119%
563-58-6	1,1-Dichloropropene	103%		84-119%

(a) QC outside control limits.

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:	UST111578-GW22-02D		
Lab Sample ID:	F34226-2	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007744.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	ND	1.9	0.94	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		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:	UST1115-MW01		
Lab Sample ID:	F34226-3	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028908.D	1	08/31/05	JG	n/a	n/a	GQR1298
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	0.92	1.0	0.50	ug/l	J
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW01		
Lab Sample ID:	F34226-3	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	105%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	109%		64-121%
563-58-6	1,1-Dichloropropene	97%		84-119%
563-58-6	1,1-Dichloropropene	106%		84-119%

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:	UST1115-MW01		
Lab Sample ID:	F34226-3	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007745.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
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	89%		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:	UST1115-MW01D		
Lab Sample ID:	F34226-4	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028909.D	1	08/31/05	JG	n/a	n/a	GQR1298
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	0.89	1.0	0.50	ug/l	J
108-88-3	Toluene	0.51	1.0	0.50	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW01D		
Lab Sample ID:	F34226-4	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	102%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	110%		64-121%
563-58-6	1,1-Dichloropropene	95%		84-119%
563-58-6	1,1-Dichloropropene	104%		84-119%

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:	UST1115-MW01D		
Lab Sample ID:	F34226-4	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007746.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
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	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:	UST1115-MW02		
Lab Sample ID:	F34226-5	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028911.D	1	08/31/05	JG	n/a	n/a	GQR1298
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW02		
Lab Sample ID:	F34226-5	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	103%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	108%		64-121%
563-58-6	1,1-Dichloropropene	96%		84-119%
563-58-6	1,1-Dichloropropene	102%		84-119%

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:	UST1115-MW02		
Lab Sample ID:	F34226-5	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007747.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
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	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:	UST1115-MW04		
Lab Sample ID:	F34226-6	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028912.D	1	08/31/05	JG	n/a	n/a	GQR1298
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.63	1.0	0.50	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	1.6	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW04		
Lab Sample ID:	F34226-6	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	105%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	108%		64-121%
563-58-6	1,1-Dichloropropene	96%		84-119%
563-58-6	1,1-Dichloropropene	103%		84-119%

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:	UST1115-MW04		
Lab Sample ID:	F34226-6	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007748.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	ND	1.9	0.94	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		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:	UST1115-MW17		
Lab Sample ID:	F34226-7	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028942.D	1	09/01/05	JG	n/a	n/a	GQR1300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9.5	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	57.7	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.52	1.0	0.50	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	1.8	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW17		
Lab Sample ID:	F34226-7	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	2.4	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	105%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	99%		64-121%
563-58-6	1,1-Dichloropropene	97%		84-119%
563-58-6	1,1-Dichloropropene	103%		84-119%

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:	UST1115-MW17		
Lab Sample ID:	F34226-7	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007750.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	16.3	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	8.6	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	4.4	1.9	0.94	ug/l	
90-12-0	1-Methylnaphthalene	10.4	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	16.4	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		36-114%
92-94-4	p-Terphenyl	93%		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:	UST1115-MW21		
Lab Sample ID:	F34226-8	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028917.D	5	08/31/05	JG	n/a	n/a	GQR1298
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	282	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	9.0	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	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:	UST1115-MW21		
Lab Sample ID:	F34226-8	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
1330-20-7	Xylenes (total)	ND	15	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	102%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	107%		64-121%
563-58-6	1,1-Dichloropropene	94%		84-119%
563-58-6	1,1-Dichloropropene	101%		84-119%

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:	UST1115-MW21		
Lab Sample ID:	F34226-8	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007751.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	2.5	1.9	0.94	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		36-114%
92-94-4	p-Terphenyl	91%		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:	UST1115-MW22		
Lab Sample ID:	F34226-9	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028919.D	50	08/31/05	JG	n/a	n/a	GQR1298
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3380	50	25	ug/l	
75-27-4	Bromodichloromethane	ND	50	25	ug/l	
75-25-2	Bromoform	ND	50	25	ug/l	
74-83-9	Bromomethane	ND	50	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
124-48-1	Dibromochloromethane	ND	50	20	ug/l	
75-00-3	Chloroethane	ND	50	25	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	50	25	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	ND	50	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	25	ug/l	
107-06-2	1,2-Dichloroethane	131	50	25	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	ND	50	25	ug/l	
75-09-2	Methylene chloride	ND	250	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	10	ug/l	
127-18-4	Tetrachloroethene	ND	50	25	ug/l	
108-88-3	Toluene	32.4	50	25	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	50	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	25	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW22		
Lab Sample ID:	F34226-9	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	50	25	ug/l	
75-01-4	Vinyl chloride	ND	50	25	ug/l	
1330-20-7	Xylenes (total)	ND	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	102%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	104%		64-121%
563-58-6	1,1-Dichloropropene	95%		84-119%
563-58-6	1,1-Dichloropropene	103%		84-119%

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:	UST1115-MW22		
Lab Sample ID:	F34226-9	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007752.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	2.8	1.9	0.94	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		36-114%
92-94-4	p-Terphenyl	91%		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:	UST1115-MW24		
Lab Sample ID:	F34226-10	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028920.D	50	08/31/05	JG	n/a	n/a	GQR1298
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3120	50	25	ug/l	
75-27-4	Bromodichloromethane	ND	50	25	ug/l	
75-25-2	Bromoform	ND	50	25	ug/l	
74-83-9	Bromomethane	ND	50	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
124-48-1	Dibromochloromethane	ND	50	20	ug/l	
75-00-3	Chloroethane	ND	50	25	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	50	25	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	ND	50	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	25	ug/l	
107-06-2	1,2-Dichloroethane	44.3	50	25	ug/l	J
75-35-4	1,1-Dichloroethene	ND	50	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	ND	50	25	ug/l	
75-09-2	Methylene chloride	ND	250	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	10	ug/l	
127-18-4	Tetrachloroethene	ND	50	25	ug/l	
108-88-3	Toluene	ND	50	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	25	ug/l	
79-01-6	Trichloroethene	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:	UST1115-MW24		
Lab Sample ID:	F34226-10	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	50	25	ug/l	
75-01-4	Vinyl chloride	ND	50	25	ug/l	
1330-20-7	Xylenes (total)	ND	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	102%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	103%		64-121%
563-58-6	1,1-Dichloropropene	95%		84-119%
563-58-6	1,1-Dichloropropene	106%		84-119%

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:	UST1115-MW24		
Lab Sample ID:	F34226-10	Date Sampled:	08/18/05
Matrix:	AQ - Ground Water	Date Received:	08/20/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007753.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	ND	1.9	0.94	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		36-114%
92-94-4	p-Terphenyl	93%		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:	TRIP BLANK-UST1115-81805		
Lab Sample ID:	F34226-11	Date Sampled:	08/18/05
Matrix:	AQ - Trip Blank Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028907.D	1	08/31/05	JG	n/a	n/a	GQR1298
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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-UST1115-81805		
Lab Sample ID:	F34226-11	Date Sampled:	08/18/05
Matrix:	AQ - Trip Blank Water	Date Received:	08/20/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-NW		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	103%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	108%		64-121%
563-58-6	1,1-Dichloropropene	96%		84-119%
563-58-6	1,1-Dichloropropene	102%		84-119%

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

CHAIN-OF-CUSTODY RECORD F34226

COC Number:
110385-NW-08182005

Shaw
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haw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

oject Name	Project Location	Analysis Desired
CAMP LEJEUNE - NW	CAMP LEJEUNE, NC	

oject Number	Contact	PO Number
110385	Mark Martin	FSSI

lent Rep	Project Manager
US NAVY - LANTDIV	Ron Kenyon

tem No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOA 601/602	PAH 610
1	UST111578-GW22-02	8/18/05	09:58		X	UST111578-GW22-02	5	X	X
2	UST111578-GW22-02D	8/18/05	10:03		X	UST111578-GW22-02D	5	X	X
3	UST1115-MW01	8/18/05	10:25		X	UST1115GT-MW01	5	X	X
4	UST1115-MW01D	8/18/05	10:40		X	UST1115GT-MW01D	5	X	X
5	UST1115-MW02	8/18/05	14:10		X	UST1115-MW02	5	X	X
6	UST1115-MW04	8/18/05	16:55		X	UST1115-MW04	5	X	X
7	UST1115-MW17	8/18/05	16:16		X	UST1115-MW17	5	X	X
8	UST1115-MW21	8/18/05	13:17		X	UST1115-MW21	5	X	X
9	UST1115-MW22	8/18/05	15:30		X	UST1115-MW22	5	X	X
10	UST1115-MW24	8/18/05	12:40		X	UST1115-MW24	5	X	X
11	Trip Blank- UST1115-81805	8/18/05			X	Trip Blank	2	X	

nsfer mber	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 11		UPS TRACKING # 1Z71V0984190882084 1Z71V0984191666495	8/19/2005	16:00	14 Day TAT
2		UPS		8/20/05	9:00	

F34226: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F34226 CLIENT: Shaw E+I PROJECT: Camp Lejeune -NW

DATE/TIME RECEIVED: 8/20/05 9:00 # OF COOLERS RECEIVED: 2 COOLER TEMPS: 3.6 3.2

METHOD OF DELIVERY: ~~FEDEX~~ UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 1Z 71V 098 41 9166 6495 1Z 71V 098 41 9088 2084

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
- [ ] 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 ? 0

NUMBER OF 5035 FIELD KITS ? 0

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] TECHNICIAN SIGNATURE/DATE [signature]

ASBD06/22/05

3.1 B

F34226: Chain of Custody
Page 2 of 2

APPENDIX D

GROUNDWATER SAMPLE COLLECTION LOGS

Shaw
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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. MW23
SAMPLE NO.UST 1115 MW 23

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/17/15
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1430
PHONE: 910-451-2390	WEATHER: 80's high / Hot	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

(11.5)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	22.57	21.74	20.92	20.92			(°C)
Specific Conductivity	2.096	2.697	2.632	2.837			(mS/cm°)
Dissolved Oxygen (DO)	3.34	.58	.22	.17			(mg/L)
PH	6.45	6.64	6.69	6.70			(STD)
ORP	303.1	89.1	-5.2	-32.9			mV
Turbidity (Turb)	547.6	33.6	54.0	37.2			(NTU)

82 11 71

35.5 2 71 6 11 10

Depth to Bottom	98.00	(In) (Minus)	Depth to Water	130.56	(In)	=	850.44	HT (in)
Depth to Bottom	81.75	(Ft) (Minus)	Depth to Water	10.88	(Ft)	=	70.87	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			70.87	1	3.14	2670	.0043	11.5		34.9	35.5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

115 3 35.5 3 5 2 15

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: HPFF
WELL NO.
SAMPLE NO.UST 1115-MW18

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/17/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS (7)

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

51
10
41

Depth to Bottom	606.60	(In) (Minus)	Depth to Water	118.80	(In)	=	487.80	HT (in)
Depth to Bottom	50.55	(Ft) (Minus)	Depth to Water	9.90	(Ft)	=	40.65	HT (ft)

3 20.5 18 25

6.

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			487.80	1	3.14	1532	.0043	6.6		17.8	Ø
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:
Would not ~~keep~~ purge any water

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

Take 2 sets of Samples

Shaw Environmental & Infrastructure, Inc.	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 110385
		PROJECT NAME: HPFF
		WELL NO. 786W22-02
		SAMPLE NO.UST 786W22-02

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/17/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 958
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

(1) FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	22.03	22.07	22.87	22.88			(°C)
Specific Conductivity	.372	.361	.363	.344			(mS/cm°)
Dissolved Oxygen (DO)	3.81	1.18	1.33	1.09			(mg/L)
PH	6.81	5.89	5.50	5.45			(STD)
ORP	433.4	446.3	429.9	413.5			mV
Turbidity (Turb)	335.6	200.3	200.4	189.7			(NTU)

Depth to Bottom	276.00	(In) (Minus)	Depth to Water	96.72	(In)	=	179.28	HT (in)
Depth to Bottom	23.00	(Ft) (Minus)	Depth to Water	8.06	(Ft)	=	14.94	HT (ft)

1'2
23.00
8.06
4.94

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			14.94	1	3.14	563	.0043	2.4		2.3	3.0
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

5
2.5
(1)

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: HPFF
WELL NO. MW 24
SAMPLE NO.UST 1115-MW24

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/18/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1240
PHONE: 910-451-2390	WEATHER: Upper 80's Hot / Overcast	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

(11)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	24.21	23.28	23.40				(°C)
Specific Conductivity	.933	1.184	1.168				(mS/cm°)
Dissolved Oxygen (DO)	-2.22	1.59	1.09				(mg/L)
PH	6.38	6.58	6.76				(STD)
ORP	249.0	-38.6	-61.4				mV
Turbidity (Turb)	+4.1	+5.0	+7.3				(NTU)

Depth to Bottom	954.24	(In) (Minus)	Depth to Water	126.00	(In)	=	828.24	HT (in)
Depth to Bottom	79.52	(Ft) (Minus)	Depth to Water	10.5	(Ft)	=	69.02	HT (ft)

7 80 11 (69) (34) 2/69 6 9 11.3 3134

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			69.02	1	3.14	2601	.0043	11.2		33.5	34
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:

omitted 4th reading

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

OTHER:

Shaw
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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. MW02
SAMPLE NO.UST 1115-MW02

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/18/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1410
PHONE: 910-451-2390	WEATHER: Rain/Overcast	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

(1)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	25.81	25.61	25.50	25.46			(°C)
Specific Conductivity	.131	.132	.131	.131			(mS/cm°)
Dissolved Oxygen (DO)	2.56	2.41	1.95	1.66			(mg/L)
PH	5.30	5.11	4.97	4.93			(STD)
ORP	456.7	460.9	465.1	465.1			mV
Turbidity (Turb)	216.9	202.7	167.7	149.9			(NTU)

14
9
5

2.5

(1)

Depth to Bottom	166.80	(In) (Minus)	Depth to Water	102.12	(In)	=	64.68	HT (in)
Depth to Bottom	13.90	(Ft) (Minus)	Depth to Water	8.51	(Ft)	=	5.39	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			5.39	1	3.14	203	.0043	.9		2.6	3
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: HPFF
WELL NO. MW22
SAMPLE NO.UST 1115-MW22

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/18/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1530
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	21.61	20.92	20.87	20.92			(°C)
Specific Conductivity	.499	.525	.523	.523			(mS/cm°)
Dissolved Oxygen (DO)	.92	.08	.02	.01			(mg/L)
PH	6.44	7.02	7.15	7.19			(STD)
ORP	384.9	206.0	-7.1	-46.0			mV
Turbidity (Turb)	2.7	0.5	+1.9	+2.2			(NTU)

7
80
12
68
11
3|34

Depth to Bottom	958.44	(In) (Minus)	Depth to Water	141.48	(In)	=	816.96	HT (in)
Depth to Bottom	79.87	(Ft) (Minus)	Depth to Water	11.79	(Ft)	=	68.08	HT (ft)

11

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			68.08	1	3.14	2565	.0043	11.0		33.1	33
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: HPFF
WELL NO. MW17
SAMPLE NO.UST 1115-MW17

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 6/15/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1516
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS (8.5)

	1	2	3	4			
Temperature (Temp)	20.83	20.00	20.08	20.18			(°C)
Specific Conductivity	3.974	4.466	4.466	4.466			(mS/cm°)
Dissolved Oxygen (DO)	.27	-0.19	.12	.84			(mg/L)
PH	6.55	5.77	5.69	5.65			(STD)
ORP	171.0	44.9	42.6	41.7			mV
Turbidity (Turb)	36.6	11.6	+0.5	.9			(NTU)

Depth to Bottom	605.40	(In) (Minus)	Depth to Water	120.00	(In)	=	485.40	HT (in)
Depth to Bottom	50.45	(Ft) (Minus)	Depth to Water	10.00	(Ft)	=	40.45	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			40.45	1	3.14	1524	.0043	6.6	19.7	26
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:			

57
10
41
25
2|41
4
1
8.5
3|25
24
1

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. MW 21
SAMPLE NO.UST 1115-MW21

PROJECT LOCATION: Camp Lejeune | LOGGER: Mark Martin/Marcella Wallace | DATE 8/18/05
PROJECT CONTACT: Mark Martin | SAMPLER: Mark Martin/Marcella Wallace | TIME 1317
PHONE: 910-451-2390 | WEATHER:
LEL: | Well Locked: [X] Yes
PID: | Sampling Device: Bailer | No

(1)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	24.16	22.90	22.97	22.99			(°C)
Specific Conductivity	.202	.143	.142	.142			(mS/cm°)
Dissolved Oxygen (DO)	2.89	.39	.50	.83			(mg/L)
PH	7.83	5.03	4.90	4.90			(STD)
ORP	231.2	306.1	276.0	260.3			mV
Turbidity (Turb)	125.3	4.7	31.1	11.5			(NTU)

Depth to Bottom	602.40	(In) (Minus)	Depth to Water	109.20	(In)	=	493.20	HT (in)
Depth to Bottom	50.20	(Ft) (Minus)	Depth to Water	9.10	(Ft)	=	41.10	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			41.10	1	3.14	1549	.0043	6.7		20	21
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:

4
20
9.10
41.10

20.5
2 41.10
4
10
6.8
3 20.5
18
25

(7)

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. MW04
SAMPLE NO.UST115MW-04

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/18/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1655
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

(3.5) FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	21.58	23.47	21.39	21.80			(°C)
Specific Conductivity	.1266	.151	.197	002			(mS/cm°)
Dissolved Oxygen (DO)	.01	-.38	-.53	-.24			(mg/L)
PH	5.85	4.94	5.31	555			(STD)
ORP	366.1	373.1	351.3	351.9			mV
Turbidity (Turb) 26.4	[illegible]	8.5	10.7	14.6			(NTU)

18 4 .14

7

3.5

3 1/7

Depth to Bottom	210.36	(In) (Minus)	Depth to Water	41.76	(In)	=	168.60	HT (in)
Depth to Bottom	17.53	(Ft) (Minus)	Depth to Water	3.48	(Ft)	=	14.05	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			14.05	1	3.14	529	.0043	2.3		6.8	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:
purged dry at 4th Reading.
Calculated purge amount incorrectly - purged 10 g. instead of 7

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

Shaw
Shaw Environmental & Infrastructure, Inc.

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. MW13
SAMPLE NO.UST 1115-MW13

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/17/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME
PHONE: 910-451-2390	WEATHER: overcast mid 80's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

2"

(7)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	26.23	25.15	25.25	25.22			(°C)
Specific Conductivity	2.009	3.513	4.131	3.738			(mS/cm°)
Dissolved Oxygen (DO)	5.87	1.14	.67	.27			(mg/L)
PH	6.53	4.33	4.34	4.35			(STD)
ORP	354.4	338.9	323.0	311.7			mV
Turbidity (Turb)	542.6	13.0	88.4	86.0			(NTU)

492
5%-30
6.54
.30
43.76

Depth to Bottom	65.60	(In) (Minus)	Depth to Water	78.48	(In)	=	537.12	HT (in)
Depth to Bottom	51.30	(Ft) (Minus)	Depth to Water	6.54	(Ft)	=	44.76	HT (ft)

2|44

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

d/2 = 1	BOTTOM	TOP	Layer Thickness	r²	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			44.76	1	3.14	1687	.0043	7.3		21.8	22
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

22
7.
3|22
21
1

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: HPFF
WELL NO. MW 25
SAMPLE NO.UST 1115-MW25

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/17/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 10:30
PHONE: 910-451-2390	WEATHER: Overcast / 80's Mid	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

(11.5) FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	26.33	24.07	23.97	23.95			(°C)
Specific Conductivity	.607	.575	.571	.570			(mS/cm°)
Dissolved Oxygen (DO)	6.71	.65	.58	.59			(mg/L)
PH	8.73	7.27	7.20	7.21			(STD)
ORP 242.7	[illegible]	-87.0	-107.4	[illegible]	-113.0.		mV
Turbidity (Turb)	36.1	4.2	1.8	1.8			(NTU)

Depth to Bottom	96.20	(In) (Minus)	Depth to Water	116.76	(In)	= 844.44	HT (in)
Depth to Bottom	80.10	(Ft) (Minus)	Depth to Water	9.73	(Ft)	= 70.37	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			70.37	1	3.14	2652	.0043	11.4	34.2	35
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:			

211
80
-10
70
35
2170
11.6
3135
3
80
18

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. MW-01
SAMPLE NO.UST 1115GT-MW01

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/17/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1220
PHONE: 910-451-2390	WEATHER: Overcast Mid 80's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

2"

FIELD MEASUREMENTS (1.9)

	1	2	3	4			
Temperature (Temp)	29.65	30.54	29.81	29.47			(°C)
Specific Conductivity	.306	.222	.180	.172			(mS/cm°)
Dissolved Oxygen (DO)	1.88	1.93	[illegible]	10.82			(mg/L)
PH	5.29	5.36	5.65	5.73			(STD)
ORP	425.0	407.4	299.4	265.4			mV
Turbidity (Turb)	852.3	116.9	24.1	19.5			(NTU)

1.8
9
.9
4.5
1.2

Depth to Bottom	211.20	(In) (Minus)	Depth to Water	109.44	(In)	=	101.76	HT (in)
Depth to Bottom	17.60	(Ft) (Minus)	Depth to Water	9.12	(Ft)	=	8.48	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			8.48	1	3.14	320	.0043	1.4	4.1	4.5
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:			

Take 2 Sets of Samples

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. MW01
SAMPLE NO.UST 1115 -MW01

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/18/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1025/1040
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

(1)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	23.39	29.33	28.96	28.64			(°C)
Specific Conductivity	.181	.174	.169	.160			(mS/cm°)
Dissolved Oxygen (DO)	1.58	1.23	.94	.81			(mg/L)
PH	5.84	5.57	5.37	5.07			(STD)
ORP	374.0	386.3	399.5	416.2			mV
Turbidity (Turb)	570.4	351.4	181.3	58.2			(NTU)

Depth to Bottom	174.36	(In) (Minus)	Depth to Water	96.80	(In)	=	76.56	HT (in)
Depth to Bottom	14.53	(Ft) (Minus)	Depth to Water	8.15	(Ft)	=	6.38	HT (ft)

15
8
7
3.5
(1)

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			6.38	1	3.14	240	.0043	1.0		3.1	3.5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:
purged during Sampling
Restarted samples @ 1040

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

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. GT-07	
SAMPLE NO.UST 1115GT-07	
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 Hot Humid
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer — No

DATE 8/17/05
TIME 1300

(2.5)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	24.13	24.02					(°C)
Specific Conductivity	.257	.064					(mS/cm°)
Dissolved Oxygen (DO)	1.49	2.47					(mg/L)
PH	5.96	6.02					(STD)
ORP	357.7	318.3					mV
Turbidity (Turb)	95.3	146.8					(NTU)

Depth to Bottom	228.24	(In) (Minus)	Depth to Water	61.80	(In)	= 167.84	HT (in)
Depth to Bottom	19.02	(Ft) (Minus)	Depth to Water	5.10	(Ft)	= 13.92	HT (ft)

19
5
14
27
3 0
2.5

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			13.92	1	3.14	525	.0043	2.3	6.8	3
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:
Purged dry after 1x vol.

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

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. GT-MW09
SAMPLE NO.UST 1115GT-MW09

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1340
PHONE: 910-451-2390	WEATHER: Upper 80's Overcast	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

(1)

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	24.01	24.52	24.40	24.16			(°C)
Specific Conductivity	.292	.278	.316	.333			(mS/cm°)
Dissolved Oxygen (DO)	1.09	1.53	1.97	1.50			(mg/L)
PH	5.73	5.40	5.27	5.25			(STD)
ORP	377.8	382.9	377.1	370.2			mV
Turbidity (Turb)	59.1	69.8	48.7	40.0			(NTU)

13
6
7

Depth to Bottom	156.96	(In) (Minus)	Depth to Water	63.96	(In)	=	93.00	HT (in)
Depth to Bottom	13.08	(Ft) (Minus)	Depth to Water	5.33	(Ft)	=	7.75	HT (ft)

3.5
(1)

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			7.75	1	3.14	292	.0043	1.3		3.8	4
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS:
purged dry after 1st 40 mil —

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. UST/115-MW23
SAMPLE NO.UST/115-MW23

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 3/24/03
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 0900
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	6.37	6.51	6.36	6.34			(STD)
Specific Conductivity	2.115	2.167	2.404	2.423			(m S/cm)
Turbidity (Turb)	102.4	287.4	127.7	287.4			(NTU)
Dissolved Oxygen (DO)	0.37	0.24	0.18	0.18			(mg/l)
Temperature (Temp)	19.86	20.05	20.31	20.35			(°C)
ORP	362.8	267.7	81.3	3.2			

Depth to Bottom	981.00	(In) (Minus)	Depth to Water	129.84	(In)	=	851.16	HT (in)
Depth to Bottom	81.75	(Ft) (Minus)	Depth to Water	10.82	(Ft)	=	70.93	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			851.16	1	3.14	2673	.0043	11.5		34.5	40
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4^0 C

COMMENTS: Bubbles in Water

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. 1115-MW18	
SAMPLE NO.UST 1115-MW18	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Cloudy High 40's
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 3/22/05 3/22/05

TIME 0945

No

FIELD MEASUREMENTS

	1	2	3	4		
PH	6.32	6.36	6.38	6.37		(STD)
Specific Conductivity	1382	1.280	1272	1.274		(m S/cm)
Turbidity (Turb)	253.2	99.5	3.6	3.0		(NTU)
Dissolved Oxygen (DO)	0.77	0.94	0.69	0.63		(mg/l)
Temperature (Temp)	19.59	20.23	20.27	20.36		(°C)
ORP	438.6	115.7	44.9	27.7		

Depth to Bottom	606.60	(In) (Minus)	Depth to Water	120.96	(In)	=	485.64	HT (in)
Depth to Bottom	50.55	(Ft) (Minus)	Depth to Water	10.08	(Ft)	=	40.47	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			485.64	1	3.14	1525	.0043	6.6		19.7	25
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4^0 C

COMMENTS: Bio Smag in well Bubbles in purge water

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

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 110385
		PROJECT NAME: HPFF
		WELL NO. IR78-GW22-2
		SAMPLE NO. ~~UST~~ IR78-GW22-2

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 3/24/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1000
PHONE: 910-451-2390	WEATHER: 50's SUNNY	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.39	5.50	5.12	5.02			(STD)
Specific Conductivity	0.487	0.349	0.308	0.305			(m S/cm)
Turbidity (Turb)	171.1	410.0	263.4	208.4			(NTU)
Dissolved Oxygen (DO)	0.49	0.36	0.72	0.75			(mg/l)
Temperature (Temp)	17.54	16.41	16.75	16.51			(°C)
ORP	112.7	85.2	126.8	108.8			

Depth to Bottom	276.00	(In) (Minus)	Depth to Water	102.84	(In)	=	173.16	HT (in)
Depth to Bottom	23.00	(Ft) (Minus)	Depth to Water	8.57	(Ft)	=	14.43	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			173.16	1	3.14	544	.0043	2.3		7.0	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS: Duplicate SAMPLE Taken

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. UST1115-MW24	
SAMPLE NO. UST1115-MW24	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Clear Cool 40's
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 3/10/05
TIME 1000
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.30	6.69	6.68	6.67			(STD)
Specific Conductivity	0.778	0.874	0.879	~~0.878~~	0.878		(m S/cm)
Turbidity (Turb)	20.7	0.2	0.0	0.0			(NTU)
Dissolved Oxygen (DO)	2.40	2.61	2.48	2.43			(mg/l)
Temperature (Temp)	20.07	21.67	21.73	21.76			(°C)
ORP	69.2	-50.4	-54.2	-53.9			

Depth to Bottom	954.24	(In) (Minus)	Depth to Water	125.04	(In)	=	829.20	HT (in)
Depth to Bottom	79.52	(Ft) (Minus)	Depth to Water	10.42	(Ft)	=	69.10	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			829.20	1	3.14	2604	.0043	11.2	33.6	35
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4^0 C

COMMENTS:

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. UST1115-MW02	
SAMPLE NO. UST1115-MW02	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Cloudy 50's
LEL:	
PID:	Sampling Device: Bailer

DATE 3/22/05

TIME 1200

Well Locked: [X] Yes

No

FIELD MEASUREMENTS

	1	2	3	4		
PH	6.75	4.90	4.74	4.67		(STD)
Specific Conductivity	0.168	0.149	0.132	0.137		(m S/cm)
Turbidity (Turb)	1333.6	1227.9	219.2	63.1		(NTU)
Dissolved Oxygen (DO)	2.34	1.94	2.24	1.99		(mg/l)
Temperature (Temp)	18.64	18.54	18.55	18.63		(°C)
ORP	260.5	282.0	343.1	330.8		

Depth to Bottom	166.80	(In) (Minus)	Depth to Water	103.92	(In)	=	62.88	HT (in)
Depth to Bottom	13.90	(Ft) (Minus)	Depth to Water	8.66	(Ft)	=	5.24	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			62.88	1	3.14	197	.0043	0.8	2.5	5
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS:

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. UST1115-MW22	
SAMPLE NO.UST 1115-MW22	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER:
LEL:	
PID:	Sampling Device: Bailer

DATE 3/10/05
TIME 1200
Well Locked: [X] Yes
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.42	6.91	6.96	6.95			(STD)
Specific Conductivity	0.477	0.498	0.515	0.516			(m S/cm)
Turbidity (Turb)	0.0	0.0	0.0	0.0			(NTU)
Dissolved Oxygen (DO)	1.97	1.22	1.19	1.11			(mg/l)
Temperature (Temp)	18.32	19.16	19.60	19.53			(°C)
ORP	141.9	-3.3	-60.5	-62.9			

Depth to Bottom	958.44	(In) (Minus)	Depth to Water	139.92	(In)	=	818.52	HT (in)
Depth to Bottom	79.87	(Ft) (Minus)	Depth to Water	11.66	(Ft)	=	68.21	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			818.52	1	3.14	2570	.0043	11.1		33.2	35
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4^0 C

COMMENTS:

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

OTHER:

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. UST1115-MW17	
SAMPLE NO. UST 1115-MW17	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER:
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 3/10/05
TIME 1300
No

FIELD MEASUREMENTS

	1	2	3	4		
PH	6.11	5.45	5.40	5.39		(STD)
Specific Conductivity	3.883	4.391	4.372	4.390		(m S/cm)
Turbidity (Turb)	50.0	48.0	9.1	11.5		(NTU)
Dissolved Oxygen (DO)	1.66	1.23	1.24	1.22		(mg/l)
Temperature (Temp)	18.86	19.32	19.55	19.60		(°C)
ORP	-4.8	37.1	42.7	43.0		

Depth to Bottom	605.4	(In) (Minus)	Depth to Water	121.20	(In)	=	484.20	HT (in)
Depth to Bottom	50.45	(Ft) (Minus)	Depth to Water	10.10	(Ft)	=	40.35	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			484.20	1	3.14	1520	.0043	6.5		19.6	25
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS: Bubbles in water

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. UST 1115-MW21	
SAMPLE NO. UST 1115-MW21	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER:
LEL:	
PID:	Sampling Device: Bailer

DATE 3/10/05
TIME 1100
Well Locked: [X] Yes
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.96	4.90	4.73	4.73			(STD)
Specific Conductivity	0.183	0.139	0.140	0.139			(m S/cm)
Turbidity (Turb)	88.0	36.3	0.1	0.0			(NTU)
Dissolved Oxygen (DO)	3.12	0.99	0.97	0.92			(mg/l)
Temperature (Temp)	19.69	21.38	21.62	21.55			(°C)
ORP	63.0	117.3	116.0	115.1			

Depth to Bottom	602.40	(In) (Minus)	Depth to Water	110.76	(In)	=	491.64	HT (in)
Depth to Bottom	50.20	(Ft) (Minus)	Depth to Water	9.23	(Ft)	=	40.97	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			491.64	1	3.14	1544	.0043	6.6	19.9	25
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS: Bubbles in purge water

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. UST1115-MW04
SAMPLE NO.UST1115-MW04

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 3/10/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1400
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.44	4.52	5.00	3.01			(STD)
Specific Conductivity	0.825	0.175	0.189	0.188			(m S/cm)
Turbidity (Turb)	31.2	0.0	0.0	0.0			(NTU)
Dissolved Oxygen (DO)	3.47	1.25	0.88	0.92			(mg/l)
Temperature (Temp)	15.82	14.41	16.75	17.03			(°C)
ORP	84.2	142.8	126.5	127.7			

Depth to Bottom	210.36	(In) (Minus)	Depth to Water	54.60	(In)	=	155.76	HT (in)
Depth to Bottom	17.53	(Ft) (Minus)	Depth to Water	4.55	(Ft)	=	12.98	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			155.76	1	3.14	489	.0043	2.1		6.3	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS:

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. UST1115-MW13	
SAMPLE NO. UST1115-MW13	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Cloudy 50's
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 3/22/05
TIME 1300
No

FIELD MEASUREMENTS

	1	2	3	4		
PH	4.12	3.89	3.91	3.92		(STD)
Specific Conductivity	2.808	3.717	4.114	4.041		(m S/cm)
Turbidity (Turb)	441.5	96.6	198.6	47.6		(NTU)
Dissolved Oxygen (DO)	2.17	1.08	0.89	0.85		(mg/l)
Temperature (Temp)	24.47	24.77	24.87	24.90		(°C)
ORP	354.8	298.0	253.1	245.6		

Depth to Bottom	615.60	(In) (Minus)	Depth to Water	108.48	(In)	=	507.12	HT (in)
Depth to Bottom	51.30	(Ft) (Minus)	Depth to Water	9.041	(Ft)	=	42.26	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			507.12	1	3.14	1592	.0043	6.8	20.5	25
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4^0 C

COMMENTS: Bubbles in Purge water

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. UST1115-MW25	
SAMPLE NO. UST 1115-MW25	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: 50's cloudy
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 3/22/05
TIME 1400
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	8.16	7.51	7.11	7.03			(STD)
Specific Conductivity	0.832	0.585	0.566	0.561			(m S/cm)
Turbidity (Turb)	24.3	3.7	0.3	0.0			(NTU)
Dissolved Oxygen (DO)	0.36	0.55	0.63	0.57			(mg/l)
Temperature (Temp)	24.07	24.13	24.07	24.03			(°C)
ORP	-300.7	-98.3	-159.8	-147.7			

Depth to Bottom	961.20	(In) (Minus)	Depth to Water	117.24	(In)	=	843.96	HT (in)
Depth to Bottom	80.10	(Ft) (Minus)	Depth to Water	9.77	(Ft)	=	70.33	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			843.96	1	3.14	2650	.0043	11.4		34.2	40
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS: Green tint to water after purging a few gallons water is clear.

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

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 110385
		PROJECT NAME: HPFF
		WELL NO. UST1115GT-MW01
		SAMPLE NO.UST1115GT-MW01

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 3/22/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1300
PHONE: 910-451-2390	WEATHER: Mostly Cloudy 60's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.20	4.79	4.92	4.96			(STD)
Specific Conductivity	0.241	0.240	0.243	0.241			(m S/cm)
Turbidity (Turb)	1350.4	560.0	727.3	771.7			(NTU)
Dissolved Oxygen (DO)	0.64	0.43	0.27	0.89			(mg/l)
Temperature (Temp)	20.70	18.47	18.72	19.43			(°C)
ORP	311.8	284.3	213.9	270.3			

Depth to Bottom	211.20	(In) (Minus)	Depth to Water	50.88	(In)	=	160.32	HT (in)
Depth to Bottom	17.60	(Ft) (Minus)	Depth to Water	4.24	(Ft)	=	13.36	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			160.32	1	3.14	503	.0043	2.2		6.5	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4^0 C

COMMENTS: Extremely Sandy

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

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 110385
		PROJECT NAME: HPFF
		WELL NO. UST1115-MW01
		SAMPLE NO. UST 1115-MW01

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 3/24/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1400
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.09	4.63					(STD)
Specific Conductivity	0.179	0.171					(m S/cm)
Turbidity (Turb)	1380.9	948.8					(NTU)
Dissolved Oxygen (DO)	0.82	0.66					(mg/l)
Temperature (Temp)	20.23	20.00					(°C)
ORP	427.3	442.3					

Depth to Bottom	174.36	(In) (Minus)	Depth to Water	108.12	(In)	=	66.24	HT (in)
Depth to Bottom	14.53	(Ft) (Minus)	Depth to Water	9.01	(Ft)	=	5.52	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			66.24	1	3.14	208	.0043	0.9		2.7	2.0
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS: Purge DRY 2X Vol

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. UST1115GT-MW07	
SAMPLE NO. UST1115GT-MW07	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Partly Cloudy 60's
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 3/24/05
TIME 1215
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.97	5.66					(STD)
Specific Conductivity	0.268	0.271					(m S/cm)
Turbidity (Turb)	1327.4	1321.5					(NTU)
Dissolved Oxygen (DO)	0.86	0.26					(mg/l)
Temperature (Temp)	18.52	17:49					(°C)
ORP	228.6	114.9					

Depth to Bottom	228.29	(In) (Minus)	Depth to Water	71.28	(In)	=	156.96	HT (in)
Depth to Bottom	19.02	(Ft) (Minus)	Depth to Water	5.94	(Ft)	=	13.08	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			156.96	1	3.14	493	.0043	2.1		6.4	4.0
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS: Purge Dry 2x Vol. Sandy water

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

OTHER:

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. 1115GT-MW09
SAMPLE NO.UST1115GT-MW09

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 3/22/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1100
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.54	5.39	5.16	5.21			(STD)
Specific Conductivity	0.356	0.306	0.351	0.420			(m S/cm)
Turbidity (Turb)	1315.0	725.7	36.7	11.6			(NTU)
Dissolved Oxygen (DO)	2.43	1.77	0.89	0.76			(mg/l)
Temperature (Temp)	17.03	16.25	16.60	16.97			(°C)
ORP	274.2	275.0	183.1	154.0			

Depth to Bottom	156.96	(In) (Minus)	Depth to Water	71.64	(In)	=	85.32	HT (in)
Depth to Bottom	13.08	(Ft) (Minus)	Depth to Water	5.97	(Ft)	=	7.11	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			85.32	1	3.14	268	.0043	1.2		3.5	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

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: HPFF
WELL NO. USTHPFFC-MW10
SAMPLE NO.UST HPFFC-MW10

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/27/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1100
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	20.57	20.22	20.09	19.85			(°C)
Specific Conductivity	0.177	0.160	0.295	0.795			(mS/cm°)
Dissolved Oxygen (DO)	4.83	1.12	0.11	0.0			(mg/L)
PH	7.87	7.68	7.38	7.16			(STD)
ORP	276.4	225.4	55.9	-41.6			mV
Turbidity (Turb)	52.5	24.7	24.5	12.8			(NTU)

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=		HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water	~~13.75~~ 13.79	(Ft)	=		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				1	3.14		.0043				
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Bubbles in Purge water

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

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. LIST HPFF-MW10R
SAMPLE NO.UST HPFF-MW10R

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/27/08
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1205
PHONE: 910-451-2390	WEATHER: Cloudy 80's	
LEL:		
PID:	Sampling Device: Bailer	Well Locked: [X] Yes
		No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	23.07	22.55					(°C)
Specific Conductivity	1.099	1.097					(mS/cm°)
Dissolved Oxygen (DO)	6.85	0.13	0.0	0.0			(mg/L)
PH	6.97	6.89					(STD)
ORP	244.8	135.1					mV
Turbidity (Turb)	62.9	22.3					(NTU)

Depth to Bottom	206.40	(In) (Minus)	Depth to Water	149.64	(In)	=	56.76	HT (in)
Depth to Bottom	17.26	(Ft) (Minus)	Depth to Water	~~12.47~~ 12.47	(Ft)	=	4.73	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			56.76	1	3.14	178	.0043	0.8		2.3	1.8
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

Multiply Together

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Purge Dry 2X Vol.

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

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO.	
SAMPLE NO.UST HPFFGMW11	
PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace
PHONE: 910-451-2390	WEATHER: Cloudy 80's
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 8/27/05
TIME 1000
No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	20.43	20.40	20.63	20.71			(°C)
Specific Conductivity	0.206	0.384	0.497	0.551			(mS/cm°)
Dissolved Oxygen (DO)	8.31	3.29	1.29	0.0			(mg/L)
PH	6.95	6.93	7.00	7.03			(STD)
ORP	381.0	383.1	379.4	376.0			mV
Turbidity (Turb)	169.0	27.1	14.1	4.6			(NTU)

Depth to Bottom		(In) (Minus)	Depth to Water		(In)	=		HT (in)
Depth to Bottom		(Ft) (Minus)	Depth to Water	14.04	(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:

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

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. UST HPFFC-MW01
SAMPLE NO. UST HPFFC-MW01

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/20/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1000
PHONE: 910-451-2390	WEATHER: SUNNY 80'S	
LEL:		
PID:	Sampling Device: Bailer	Well Locked: [X] Yes / No

FIELD MEASUREMENTS

	1	2	3	4				
Temperature (Temp)	23.78	23.62	23.25	22.86				(°C)
Specific Conductivity	0.178	0.171	0.171	0.172				(mS/cm°)
Dissolved Oxygen (DO)	0.67	0.57	0.52	0.50				(mg/L)
PH	6.00	5.17	5.06	4.92				(STD)
ORP	465.1	479.9	482.2	483.5				mV
Turbidity (Turb)	74.2	17.9	11.6	4.9				(NTU)

Depth to Bottom	288.00	(In) (Minus)	Depth to Water	51.48	(In)	=	236.52	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	4.29	(Ft)	=	19.71	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			236.52	1	3.14	743	.0043	3.2		9.6	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: HPFF
WELL NO. UST HPFFC-MW07
SAMPLE NO. UST HPFFC-MW07

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/20/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1100
PHONE: 910-451-2390	WEATHER: Overcast 80's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	21.46	20.40	20.38	20.57			(°C)
Specific Conductivity	0.643	0.825	0.849	0.880			(mS/cm°)
Dissolved Oxygen (DO)	4.82	2.16	1.57	0.0			(mg/L)
PH	6.18	6.36	6.45	6.64			(STD)
ORP	369.6	337.2	327.9	292.7			mV
Turbidity (Turb)	0.0	0.0	0.0	0.0			(NTU)

Depth to Bottom	547.32	(In) (Minus)	Depth to Water	116.28	(In)	=	431.04	HT (in)
Depth to Bottom	45.61	(Ft) (Minus)	Depth to Water	9.69	(Ft)	=	35.92	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			431.04	1	3.14	1353	.0043	5.8		17.5	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: HPFF
WELL NO. UST HPFF-MW11
SAMPLE NO. UST HPFF-MW11

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/20/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1200
PHONE: 910-451-2390	WEATHER: Overcast 80's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	23.57	24.40					(°C)
Specific Conductivity	0.541	0.491					(mS/cm°)
Dissolved Oxygen (DO)	8.54	3.99					(mg/L)
PH	4.21	3.95					(STD)
ORP	471.6	464.5					mV
Turbidity (Turb)	32.3	58.1					(NTU)

Depth to Bottom	227.64	(In) (Minus)	Depth to Water	81.72	(In)	=	145.92	HT (in)
Depth to Bottom	18.97	(Ft) (Minus)	Depth to Water	6.81	(Ft)	=	12.16	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			145.92	1	3.14	458	.0043	2.0		5.9	2.
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE

COMMENTS: Purge Dry 1X Vol After well Recharged
water was extremely silty, 25% solids

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

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. HPFFC-MW05
SAMPLE NO.UST HPFFC-MW05

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin/Marcella Wallace	DATE 8/22/08
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin/Marcella Wallace	TIME 1130
PHONE: 910-451-2390	WEATHER: SUNNY 80'S	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	27.48	28.38	29.62	29.44			(°C)
Specific Conductivity	0.419	0.334	0.321	0.333			(mS/cm°)
Dissolved Oxygen (DO)	4.43	1.38	1.01	1.03			(mg/L)
PH	7.09	6.54	6.03	6.10			(STD)
ORP	304.5	387.1	240.5	221.2			mV
Turbidity (Turb)	72.4	41.3	3.3	0.0			(NTU)

Depth to Bottom	180.0	(In) (Minus)	Depth to Water	80.76	(In)	=	99.24	HT (in)
Depth to Bottom	15.00	(Ft) (Minus)	Depth to Water	6.73	(Ft)	=	8.27	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			99.24	1	3.14	312	.0043	1.3	4.0	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:			

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. UST/HPFFC-MW09
SAMPLE NO.UST HPFFC-MW09

PROJECT LOCATION: Camp Lejeune | LOGGER: Mark Martin/Marcella Wallace | DATE 8/22/05
PROJECT CONTACT: Mark Martin | SAMPLER: Mark Martin/Marcella Wallace | TIME 1045
PHONE: 910-451-2390 | WEATHER: Sunny 80's
LEL:
PID: | Sampling Device: Bailer | Well Locked: [X] Yes [ ] No

FIELD MEASUREMENTS

	1	2	3	4			
Temperature (Temp)	23.50	23.02	22.96	23.01			(°C)
Specific Conductivity	1.289	2.110	2.259	2.282			(mS/cm°)
Dissolved Oxygen (DO)	6.89	3.22	0.76	0.21			(mg/L)
PH	6.21	6.37	6.47	6.52			(STD)
ORP	311.4	298.3	288.4	274.0			mV
Turbidity (Turb)	8.9	8.6	5.3	4.5			(NTU)

Depth to Bottom	580.80	(In) (Minus)	Depth to Water	103.44	(In)	=	477.36	HT (in)
Depth to Bottom	48.40	(Ft) (Minus)	Depth to Water	8.62	(Ft)	=	39.78	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			477.36	1	3.14	1499	.0043	6.4	19.3	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:

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. USTHPFF-MW11
SAMPLE NO. UST HPFF-MW11

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 4/5/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1300
PHONE: 910-451-2390	WEATHER: Sunny 60-70	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	3.40	3.18	3.17				(STD)
Specific Conductivity	0.620	0.596	0.596				(m S/cm)
Turbidity (Turb)	1307.1	1313.9	1312.8				(NTU)
Dissolved Oxygen (DO)	1.10	3.01	2.29				(mg/l)
Temperature (Temp)	16.05	16.73	16.84				(°C)
ORP	289.0	384.3	396.4				

Depth to Bottom	288.00	(In) (Minus)	Depth to Water	83.40	(In)	=	204.60	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	6.95	(Ft)	=	17.05	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			204.60	1	3.14	642	.0043	2.8		8.3	8
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS: Extremly silty Purge Dry 3x Vol.

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. USTHPFFC-MW19	
SAMPLE NO.UST HPFFC-MW19	
PROJECT LOCATION: Camp Lejeune, NC	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 4/18/05
TIME 1445
No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.03	5.69					(STD)
Specific Conductivity	0.624	0.592					(m S/cm)
Turbidity (Turb)	65.1	103.9					(NTU)
Dissolved Oxygen (DO)	2.10	1.21					(mg/l)
Temperature (Temp)	17.86	17.66					(°C)
ORP	25.2	-10.1					

Depth to Bottom	175.20	(In) (Minus)	Depth to Water	71.28	(In)	=	103.92	HT (in)
Depth to Bottom	14.60	(Ft) (Minus)	Depth to Water	5.94	(Ft)	=	8.66	HT (ft)

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

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in. (Multiply Together)	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			103.92	1	3.14	326	.0043	1.4		4.2	~~8.5~~
Middle					3.14		.0043				2.5
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS: Purged Dry 2X Vol

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

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WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: TT 2478
WELL NO. USTHPFFC-MW20
SAMPLE NO. USTT~~2478~~

PROJECT LOCATION: Camp Lejeune	LOGGER: Mark Martin	DATE 4/18/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1530
PHONE: 910-451-2390	WEATHER:	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.16	5.92	5.94	5.98			(STD)
Specific Conductivity	0.327	0.392	0.424	0.410			(m S/m)
Turbidity (Turb)	120.9	56.7	24.6	13.7			(NTU)
Dissolved Oxygen (DO)	2.43	1.04	0.83	0.79			(g/l)
Temperature (Temp)	17.75	16.82	16.60	16.58			(°C)
ORP	29.6	22.7	0.1	-10.0			

Depth to Bottom	171.36	(In) (Minus)	Depth to Water	88.44	(In)	=	82.92	HT (in)
Depth to Bottom	14.28	(Ft) (Minus)	Depth to Water	7.37	(Ft)	=	6.91	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			82.92	1	3.14	260	.0043	1.1	3.4	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: ☐

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. USTHPFF-MW01
SAMPLE NO.UST HPFF - MW01

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 4/13/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1400
PHONE: 910-451-2390	WEATHER: Cloudy 50's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.70	5.39	5.41	5.41			(STD)
Specific Conductivity	0.153	0.141	0.149	0.149			(m S/cm)
Turbidity (Turb)	484.3	154.1	56.6	41.9			(NTU)
Dissolved Oxygen (DO)	3.73	0.96	0.58	0.54			(mg/l)
Temperature (Temp)	16.18	16.07	16.28	16.32			(°C)
ORP	113.9	95.3	78.2	73.0			

Depth to Bottom	288.00	(In) (Minus)	Depth to Water	63.96	(In)	=	224.04	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	5.33	(Ft)	=	18.67	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			224.04	1	3.14	703	.0043	3.0		9.1	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS:

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. UST HPFF-MW10R
SAMPLE NO. UST HPFF-MW10R

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 4/13/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1200
PHONE: 910-451-2390	WEATHER: Cloudy 50's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.40	6.49	6.53				(STD)
Specific Conductivity	1.108	1.125	1.149				(m S/cm)
Turbidity (Turb)	88.6	37.4	27.7				(NTU)
Dissolved Oxygen (DO)	1.61	1.80	0.93				(mg/l)
Temperature (Temp)	15.72	15.78	15.75				(°C)
ORP	95.7	6.0	-36.6				

Depth to Bottom	206.40	(In) (Minus)	Depth to Water	150.48	(In) =	55.92	HT (in)
Depth to Bottom	17.20	(Ft) (Minus)	Depth to Water	12.54	(Ft) =	4.66	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			55.92	1	3.14	176	.0043	0.8		2.3	2.0
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS: Purged Dry 3X Vol.

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. USTHPFF-MW18	
SAMPLE NO. UST HPFF-MW18	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Cloudy 50's
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 4/13/05

TIME 1500

No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.48	5.58	5.65	5.65			(STD)
Specific Conductivity	0.276	0.280	0.282	0.281			(m S/cm)
Turbidity (Turb)	40.6	23.6	5.5	3.1			(NTU)
Dissolved Oxygen (DO)	1.39	0.93	0.82	0.77			(mg/l)
Temperature (Temp)	19.57	19.90	19.75	19.70			(°C)
ORP	94.2	69.7	51.4	43.1			

Depth to Bottom	274.80	(In) (Minus)	Depth to Water	134.88	(In)	=	139.92	HT (in)
Depth to Bottom	22.90	(Ft) (Minus)	Depth to Water	11.24	(Ft)	=	11.66	HT (ft)

d = 4

r = 2

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			139.92	2	3.14	1757	.0043	7.6		22.7	25
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3-40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4^0 C

COMMENTS:

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. UST HPFFC-MW07
SAMPLE NO. USTHPFFC-MW07

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 4/5/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1200
PHONE: 910-451-2390	WEATHER: Sunny 60-70	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.62	6.07	6.11	6.12			(STD)
Specific Conductivity	0.682	0.890	0.901	0.903			(m S/cm)
Turbidity (Turb)	127.7	9.3	1.5	1.5			(NTU)
Dissolved Oxygen (DO)	1.61	0.46	0.45	0.45			(mg/l)
Temperature (Temp)	19.67	19.68	19.70	19.69			(°C)
ORP	90.2	6.0	-5.7	-13.4			

Depth to Bottom	547.32	(In) (Minus)	Depth to Water	91.80	(In)	=	455.52	HT (in)
Depth to Bottom	45.61	(Ft) (Minus)	Depth to Water	7.65	(Ft)	=	37.56	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			455.52	1	3.14	1430	.0043	6.2		18.5	25
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4^0 C

COMMENTS:

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

OTHER:

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. UST HPFFC-MW01	
SAMPLE NO.UST HPFFC-MW01	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Sunny 60-70
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 4/5/05
TIME 1100
No

FIELD MEASUREMENTS

	1	2	3	4		
PH	7.28	4.97	4.79	4.66		(STD)
Specific Conductivity	0.190	0.192	0.186	0.176		(m S/cm)
Turbidity (Turb)	1315.8	82.0	52.7	35.8		(NTU)
Dissolved Oxygen (DO)	1.23	2.84	3.17	2.34		(mg/l)
Temperature (Temp)	16.82	16.28	16.47	16.64		(°C)
ORP	-61.2	172.9	186.4	206.0		

Depth to Bottom	288.00	(In) (Minus)	Depth to Water	63.56	(In)	=	224.04	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	5.33	(Ft)	=	18.67	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			224.04	1	3.14	703	.0043	3.0	9.1	15
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS:

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. IR78-GW32-02	
SAMPLE NO. ~~UST~~ IR78-GW32-02	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Sunny 60-70
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 4/6/05

TIME 1500

No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.36	6.71	6.26	6.26			(STD)
Specific Conductivity	0.684	0.727	0.802	0.802			(m S/cm)
Turbidity (Turb)	51.2	29.0	15.7	14.4			(NTU)
Dissolved Oxygen (DO)	4.40	0.72	0.30	0.26			(mg/l)
Temperature (Temp)	22.93	21.88	21.92	21.94			(°C)
ORP	-92.2	-71.3	-67.8	-66.1			

Depth to Bottom	948.00	(In) (Minus)	Depth to Water	102.48	(In)	=	845.25	HT (in)
Depth to Bottom	79.00	(Ft) (Minus)	Depth to Water	8.54	(Ft)	=	70.46	HT (ft)

d = 4

r = 2

d/2 = 2

MEASUREMENTS (IN INCHES)

Multiply Together

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			845.25	2	3.14	10620	.0043	45.7		1370	150
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS:

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. IR28-GW32-03	
SAMPLE NO. ~~UST~~ IR28-GW32-03	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Sunny 60-70
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 4/6/05

TIME 1300

No

FIELD MEASUREMENTS

	1	2	3	4		
PH	7.07	7.41	7.21	7.21		(STD)
Specific Conductivity	0.346	0.333	0.335	0.335		(m S/cm)
Turbidity (Turb)	0.0	0.0	0.0	0.0		(NTU)
Dissolved Oxygen (DO)	0.99	0.27	0.22	0.22		(mg/l)
Temperature (Temp)	21.85	21.60	21.02	21.02		(°C)
ORP	84.6	-125.7	-135.8	-136.3		

Depth to Bottom	1822.80	(In) (Minus)	Depth to Water	109.44	(In)	=	1713.36	HT (in)
Depth to Bottom	151.9	(Ft) (Minus)	Depth to Water	9.12	(Ft)	=	142.8	HT (ft)

d = 4

r = 2

d/2 = 2

MEASUREMENTS (IN INCHES)

Multiply Together

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			1713.36	2	3.14	21520	.0043	92.5		277.6	300
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS:

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. USTHPFF-MW17A
SAMPLE NO.UST HPFF-MW17A

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 4/13/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1300
PHONE: 910-451-2390	WEATHER: Cloudy 50's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.62	6.27	6.11	6.08			(STD)
Specific Conductivity	0.357	0.328	0.322	0.311			(m S/cm)
Turbidity (Turb)	43.1	30.9	31.6	23.9			(NTU)
Dissolved Oxygen (DO)	1.46	0.66	0.51	0.49			(mg/l)
Temperature (Temp)	16.84	17.00	16.88	16.92			(°C)
ORP	-26.5	-16.6	-14.5	-14.9			

Depth to Bottom	415.62	(In) (Minus)	Depth to Water	130.64	(In)	=	284.88	HT (in)
Depth to Bottom	34.96	(Ft) (Minus)	Depth to Water	11.22	(Ft)	=	23.74	HT (ft)

d = 4 MEASUREMENTS (IN INCHES)
r = 2 Multiply Together
d/2 = 2

	BOTTOM	TOP	Layer Thickness	r^2	Π	Vol. Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			284.88	2	3.14	3578	.0043	15.4	46.2	50
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4^0 C

COMMENTS:

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385
PROJECT NAME: HPFF
WELL NO. HBTHPFFC-MW08
SAMPLE NO.UST HPFFC-MW 08

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 4/13/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1100
PHONE: 910-451-2390	WEATHER: Cloudy 50's	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	6.68	6.44	6.48	6.50			(STD)
Specific Conductivity	0.426	0.468	0.508	0.515			(m S/cm)
Turbidity (Turb)	103.8	28.4	7.9	14.8			(NTU)
Dissolved Oxygen (DO)	2.14	0.85	0.65	0.51			(mg/l)
Temperature (Temp)	18.68	19.28	19.57	19.65			(°C)
ORP	-54.0	-75.4	-97.8	-103.3			

Depth to Bottom	613.32	(In) (Minus)	Depth to Water	186.60	(In)	=	426.72	HT (in)
Depth to Bottom	51.11	(Ft) (Minus)	Depth to Water	15.55	(Ft)	=	35.56	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			426.72	1	3.14	1340	.0043	5.8		17.3	20
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS:

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. USTHPFFC-MW05	
SAMPLE NO. USTHPFFC-MW05	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Sunny 60-70
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 4/5/05

TIME 1400

No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.45	5.35	5.20	5.25			(STD)
Specific Conductivity	0.323	0.307	0.260	0.251			(m S/cm)
Turbidity (Turb)	642.3	86.0	71.2	132.0			(NTU)
Dissolved Oxygen (DO)	2.26	0.63	0.58	1.71			(mg/l)
Temperature (Temp)	20.38	19.40	19.51	19.70			(°C)
ORP	368.7	196.7	147.7	133.0			

Depth to Bottom	180.00	(In) (Minus)	Depth to Water	88.56	(In)	=	91.44	HT (in)
Depth to Bottom	15.00	(Ft) (Minus)	Depth to Water	7.38	(Ft)	=	7.62	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			91.44	1	3.14	287	.0043	1.2		3.7	5
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS:

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

OTHER:

	WELL OR GROUND WATER DATA SHEET	PROJECT NUMBER: 110385
		PROJECT NAME: HPFF
		WELL NO. UST HPFFC- MW09
		SAMPLE NO.UST HPFFC-MW09

PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin	DATE 4/5/05
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin	TIME 1500
PHONE: 910-451-2390	WEATHER: Sunny 60-70	
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer	No

FIELD MEASUREMENTS

	1	2	3	4			
PH	5.85	6.13	6.15	6.15			(STD)
Specific Conductivity	0.551	1.823	1.876	2.069			(m S/cm)
Turbidity (Turb)	106.3	63.0	96.4	179.8			(NTU)
Dissolved Oxygen (DO)	3.80	3.12	2.62	1.81			(mg/l)
Temperature (Temp)	22.70	22.60	22.67	22.75			(°C)
ORP	224.7	-15.6	-30.6	-37.8			

Depth to Bottom	580.80	(In) (Minus)	Depth to Water	105.84	(In)	=	474.96	HT (in)
Depth to Bottom	48.40	(Ft) (Minus)	Depth to Water	8.82	(Ft)	=	39.58	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			474.96	1	3.14	1491	.0043	6.4		19.2	25
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4^0 C

COMMENTS: Bubbles in Purge water

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

WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 110385	
PROJECT NAME: HPFF	
WELL NO. UST HPFFC-MW11	
SAMPLE NO. UST HPFFC-MW11	
PROJECT LOCATION: Camp Lejeune, NC	LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin	SAMPLER: Mark Martin
PHONE: 910-451-2390	WEATHER: Cloudy 50's
LEL:	Well Locked: [X] Yes
PID:	Sampling Device: Bailer

DATE 4/13/05

TIME 1000

No

FIELD MEASUREMENTS

	1	2	3	4			
PH	7.38	7.23	6.96	6.88			(STD)
Specific Conductivity	0.181	0.337	0.575	0.669			(m S/cm)
Turbidity (Turb)	~~28.8~~	57.5	12.9	10.3			(NTU)
Dissolved Oxygen (DO)	2.68	0.73	0.98	0.83			(mg/l)
Temperature (Temp)	18.81	19.27	19.51	19.70			(°C)
ORP	305.4	69.3	-1.1	-24.2			

Depth to Bottom	288.00	(In) (Minus)	Depth to Water	83.40	(In)	=	204.60	HT (in)
Depth to Bottom	24.00	(Ft) (Minus)	Depth to Water	6.95	(Ft)	=	17.05	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			204.6	1	3.14	642	.0043	2.8		8.3	10
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	See Sample Number Above	3- 40 ml Vial	HCL
PAH 610	See Sample Number Above	2-1 Liter Amber	4° C

COMMENTS:

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

APPENDIX E

LABORATORY GROUNDWATER ANALYTICAL REPORTS, SOUTHEAST COMPOUND

Southeast
ACCUTEST.
Laboratories

04/18/05

Technical Report for

Field Support Service Inc

Camp Lejeune-SE

110385

Accutest Job Number: F30900

Sampling Dates: 04/05/05 - 04/06/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **47**

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: F30900

Camp Lejeune-SE
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F30900-1	04/05/05	11:00	MM	04/07/05	AQ	Ground Water	USTHPFFC-MW01
F30900-2	04/05/05	12:00	MM	04/07/05	AQ	Ground Water	USTHPFFC-MW07
F30900-3	04/05/05	13:00	MM	04/07/05	AQ	Ground Water	USTHPFFC-MW11
F30900-4	04/05/05	14:00	MM	04/07/05	AQ	Ground Water	USTHPFFC-MW05
F30900-5	04/05/05	15:00	MM	04/07/05	AQ	Ground Water	USTHPFFC-MW09
F30900-6	04/06/05	13:00	MM	04/07/05	AQ	Ground Water	IR78-GW32-03
F30900-7	04/06/05	15:00	MM	04/07/05	AQ	Ground Water	IR78-GW32-02
F30900-8	04/06/05	00:00	MM	04/07/05	AQ	Trip Blank Water	TRIP BLANK-040605

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFFC-MW01		
Lab Sample ID:	F30900-1	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027183.D	1	04/13/05	JG	n/a	n/a	GQR1224
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW01		
Lab Sample ID:	F30900-1	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	99%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	101%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	101%		86-112%

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:	USTHPFFC-MW01		
Lab Sample ID:	F30900-1	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03375.D	1	04/15/05	AA	04/08/05	OP12941	GLL134
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	90%		42-123%
84-15-1	o-Terphenyl	98%		51-123%

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:	USTHPFFC-MW07		
Lab Sample ID:	F30900-2	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027209.D	1	04/14/05	JG	n/a	n/a	GQR1225
Run #2 [a]	QR027201.D	5	04/14/05	JG	n/a	n/a	GQR1225

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.56	1.0	0.50	ug/l	J
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW07		
Lab Sample ID:	F30900-2	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	104%	102%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	104%	106%	70-123%
563-58-6	1,1-Dichloropropene	98%	99%	86-112%
563-58-6	1,1-Dichloropropene	100%	104%	86-112%

(a) Confirmation run.

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:	USTHPFFC-MW07		
Lab Sample ID:	F30900-2	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03376.D	1	04/15/05	AA	04/08/05	OP12941	GLL134
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	82%		42-123%
84-15-1	o-Terphenyl	97%		51-123%

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:	USTHPFFC-MW11		
Lab Sample ID:	F30900-3	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR027184.D	1	04/13/05	JG	n/a	n/a	GQR1224
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	5.2	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	34.8	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.78	1.0	0.50	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.7	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW11		
Lab Sample ID:	F30900-3	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	101%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	104%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	107%		86-112%

(a) All hits confirmed by GC/MS.

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:	USTHPFFC-MW11		
Lab Sample ID:	F30900-3	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03379.D	1	04/15/05	AA	04/08/05	OP12941	GLL134
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	79%		42-123%
84-15-1	o-Terphenyl	87%		51-123%

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:	USTHPFFC-MW05		
Lab Sample ID:	F30900-4	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027185.D	1	04/13/05	JG	n/a	n/a	GQR1224
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.1	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW05		
Lab Sample ID:	F30900-4	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	99%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	105%		86-112%

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:	USTHPFFC-MW05		
Lab Sample ID:	F30900-4	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03380.D	1	04/15/05	AA	04/08/05	OP12941	GLL134
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	86%		42-123%
84-15-1	o-Terphenyl	104%		51-123%

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:	USTHPFFC-MW09		
Lab Sample ID:	F30900-5	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR027200.D	1	04/14/05	JG	n/a	n/a	GQR1225
Run #2	QR027191.D	10	04/13/05	JG	n/a	n/a	GQR1224

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.76	1.0	0.50	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	268 [b]	10	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	1.9	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.57	1.0	0.50	ug/l	J
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	56.7	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	1.2	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW09		
Lab Sample ID:	F30900-5	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	3.5	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	94%	100%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	98%	100%	70-123%
563-58-6	1,1-Dichloropropene	94%	101%	86-112%
563-58-6	1,1-Dichloropropene	104%	102%	86-112%

(a) Confirmed by GC/MS
(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:	USTHPFFC-MW09		
Lab Sample ID:	F30900-5	Date Sampled:	04/05/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03381.D	1	04/16/05	AA	04/08/05	OP12941	GLL134
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	ND	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	90%		42-123%
84-15-1	o-Terphenyl	96%		51-123%

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:	IR78-GW32-03		
Lab Sample ID:	F30900-6	Date Sampled:	04/06/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027186.D	1	04/13/05	JG	n/a	n/a	GQR1224
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	8.2	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	1.4	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	5.5	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	IR78-GW32-03		
Lab Sample ID:	F30900-6	Date Sampled:	04/06/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	20.5	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	100%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	102%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	106%		86-112%

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:	IR78-GW32-03		
Lab Sample ID:	F30900-6	Date Sampled:	04/06/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03389.D	1	04/16/05	AA	04/08/05	OP12941	GLL134
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.9	ug/l	
120-12-7	Anthracene	ND	4.9	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.9	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.9	1.9	ug/l	
86-73-7	Fluorene	ND	4.9	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	1.9	ug/l	
91-20-3	Naphthalene	ND	4.9	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	1.9	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.9	1.9	ug/l	
129-00-0	Pyrene	ND	4.9	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	71%		42-123%
84-15-1	o-Terphenyl	88%		51-123%

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:	IR78-GW32-02		
Lab Sample ID:	F30900-7	Date Sampled:	04/06/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR027193.D	10	04/13/05	JG	n/a	n/a	GQR1224
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	604	10	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
74-83-9	Bromomethane	ND	10	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-00-3	Chloroethane	ND	10	5.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	10	5.0	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane	110	10	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	15.4	10	5.0	ug/l	
75-09-2	Methylene chloride	ND	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.0	ug/l	
108-88-3	Toluene	48.4	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
79-01-6	Trichloroethene	ND	10	5.0	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:	IR78-GW32-02		
Lab Sample ID:	F30900-7	Date Sampled:	04/06/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	10	5.0	ug/l	
1330-20-7	Xylenes (total)	110	30	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	99%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	99%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	102%		86-112%

(a) All hits confirmed by GC/MS.

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:	IR78-GW32-02		
Lab Sample ID:	F30900-7	Date Sampled:	04/06/05
Matrix:	AQ - Ground Water	Date Received:	04/07/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LL03390.D	1	04/16/05	AA	04/08/05	OP12941	GLL134
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.8	1.9	ug/l	
120-12-7	Anthracene	ND	4.8	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.8	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.8	1.9	ug/l	
86-73-7	Fluorene	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
91-20-3	Naphthalene	6.7	4.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.8	1.9	ug/l	
91-57-6	2-Methylnaphthalene	2.9	4.8	1.9	ug/l	J
85-01-8	Phenanthrene	ND	4.8	1.9	ug/l	
129-00-0	Pyrene	ND	4.8	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	86%		42-123%
84-15-1	o-Terphenyl	99%		51-123%

(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:	TRIP BLANK-040605		
Lab Sample ID:	F30900-8	Date Sampled:	04/06/05
Matrix:	AQ - Trip Blank Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027182.D	1	04/13/05	JG	n/a	n/a	GQR1224
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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-040605		
Lab Sample ID:	F30900-8	Date Sampled:	04/06/05
Matrix:	AQ - Trip Blank Water	Date Received:	04/07/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	99%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	104%		86-112%

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

F30900

COC Number:
110385-SE-040605

CHAIN-OF-CUSTODY RECORD

Shaw
Shaw Environmental & Infrastructure, Inc.

3.1
3

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location	Project Number	Contact	PO Number
CAMP LEJEUNE - SE	CAMP LEJEUNE, NC	110385	Mark Martin	FSSI

Client Rep: US NAVY - LANTDIV
Project Manager: Ron Kenyon

Analysis Desired

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOA 601/602	PAH 610
1	USTHPFFC-MW01	4/5/05	11:00		X	USTHPFFC-MW01	5	X	X
2	USTHPFFC-MW07	4/5/05	12:00		X	USTHPFFC-MW07	5	X	X
3	USTHPFF-MW11	4/5/05	13:00		X	USTHPFF-MW11	5	X	X
4	USTHPFFC-MW05	4/5/05	14:00		X	USTHPFFC-MW05	5	X	X
5	USTHPFFC-MW09	4/5/05	15:00		X	USTHPFFC-MW09	5	X	X
6	IR78-GW32-03	4/6/05	13:00		X	IR78-GW32-03	5	X	X
7	IR78-GW32-02	4/6/05	15:00		X	IR78-GW32-02	5	X	X
8	Trip Blank-040605	4/6/05			X	Trip Blank	2	X	
9									
10									

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 – 8		UPS 1Z 71V 098 01 9461 3923, 1Z 71V 098 0192795133	4/6/05	18:00	14 Day TAT
2		UPS		4/7/05	10:30	

1-8 2-6

F30900: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories
F30900

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F30900 CLIENT: Shaw E+I PROJECT: 110385

DATE/TIME RECEIVED: 4/7/05 110385 # OF COOLERS RECEIVED: 2 COOLER TEMPS: 1.X 2-C

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

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

SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 4/7/05 TECHNICIAN SIGNATURE/DATE 4/7/05

ASBD02/04/05

F30900: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST.
Laboratories

05/03/05

Technical Report for

Field Support Service Inc

Camp Lejeune-SE

110385

Accutest Job Number: F31163

Sampling Date: 04/13/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **46**

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: F31163

Camp Lejeune-SE
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F31163-1	04/13/05	10:00	MM	04/15/05	AQ	Ground Water	USTHPFF-MW11
F31163-2	04/13/05	11:00	MM	04/15/05	AQ	Ground Water	USTHPFFC-MW08
F31163-3	04/13/05	12:00	MM	04/15/05	AQ	Ground Water	USTHPFF-MW10R
F31163-4	04/13/05	13:00	MM	04/15/05	AQ	Ground Water	USTHPFF-MW17A
F31163-5	04/13/05	14:00	MM	04/15/05	AQ	Ground Water	USTHPFF-MW01
F31163-6	04/13/05	15:00	MM	04/15/05	AQ	Ground Water	USTHPFF-MW18
F31163-7	04/13/05	00:00	MM	04/15/05	AQ	Trip Blank Water	TRIP BLANK-040605

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MW11		
Lab Sample ID:	F31163-1	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027264.D	1	04/21/05	RM	n/a	n/a	GQR1228
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	2.0	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.64	1.0	0.50	ug/l	J
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	0.68	1.0	0.50	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFF-MW11		
Lab Sample ID:	F31163-1	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	99%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	100%		64-121%
563-58-6	1,1-Dichloropropene	99%		84-119%
563-58-6	1,1-Dichloropropene	104%		84-119%

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:	USTHPFF-MW11		
Lab Sample ID:	F31163-1	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL03645.D	1	04/25/05	AA	04/18/05	OP13034	GLL144
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	4.9	2.0	ug/l	
208-96-8	Acenaphthylene	ND	4.9	2.0	ug/l	
120-12-7	Anthracene	ND	4.9	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	2.0	ug/l	
218-01-9	Chrysene	ND	4.9	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	2.0	ug/l	
206-44-0	Fluoranthene	ND	4.9	2.0	ug/l	
86-73-7	Fluorene	ND	4.9	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	2.0	ug/l	
91-20-3	Naphthalene	ND	4.9	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	4.9	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	2.0	ug/l	
85-01-8	Phenanthrene	ND	4.9	2.0	ug/l	
129-00-0	Pyrene	ND	4.9	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	88%		42-123%
84-15-1	o-Terphenyl	90%		51-123%

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:	USTHPFFC-MW08		
Lab Sample ID:	F31163-2	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027280.D	100	04/25/05	RM	n/a	n/a	GQR1229
Run #2	QR027309.D	200	04/27/05	RM	n/a	n/a	GQR1231

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	10600 [a]	200	100	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	248	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	859	100	50	ug/l	
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	1680	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	ND	100	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:	USTHPFFC-MW08		
Lab Sample ID:	F31163-2	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	ND	100	50	ug/l	
1330-20-7	Xylenes (total)	2750	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	99%	97%	64-121%
352-33-0	1-Chloro-4-fluorobenzene	97%	102%	64-121%
563-58-6	1,1-Dichloropropene	97%	98%	84-119%
563-58-6	1,1-Dichloropropene	105%	108%	84-119%

(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:	USTHPFFC-MW08		
Lab Sample ID:	F31163-2	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LL03646.D	5	04/25/05	AA	04/18/05	OP13034	GLL144
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	24	9.6	ug/l	
208-96-8	Acenaphthylene	ND	24	9.6	ug/l	
120-12-7	Anthracene	ND	24	9.6	ug/l	
56-55-3	Benzo(a)anthracene	ND	24	9.6	ug/l	
50-32-8	Benzo(a)pyrene	ND	24	9.6	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	24	9.6	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	24	9.6	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	24	9.6	ug/l	
218-01-9	Chrysene	ND	24	9.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	24	9.6	ug/l	
206-44-0	Fluoranthene	ND	24	9.6	ug/l	
86-73-7	Fluorene	ND	24	9.6	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	24	9.6	ug/l	
91-20-3	Naphthalene	165	24	9.6	ug/l	
90-12-0	1-Methylnaphthalene	14.0	24	9.6	ug/l	J
91-57-6	2-Methylnaphthalene	27.5	24	9.6	ug/l	
85-01-8	Phenanthrene	ND	24	9.6	ug/l	
129-00-0	Pyrene	ND	24	9.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	187% [b]		42-123%
84-15-1	o-Terphenyl	89%		51-123%

(a) All hits confirmed by dual column analysis.
(b) Outside control 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:	USTHPFF-MW10R		
Lab Sample ID:	F31163-3	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR027265.D	5	04/21/05	RM	n/a	n/a	GQR1228
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	487	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	3.4	5.0	2.5	ug/l	J
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	108	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	288	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	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:	USTHPFF-MW10R		
Lab Sample ID:	F31163-3	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
1330-20-7	Xylenes (total)	524	15	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	101%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	98%		64-121%
563-58-6	1,1-Dichloropropene	100%		84-119%
563-58-6	1,1-Dichloropropene	103%		84-119%

(a) All hits confirmed by GC/MS.

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:	USTHPFF-MW10R		
Lab Sample ID:	F31163-3	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LL03647.D	1	04/25/05	AA	04/18/05	OP13034	GLL144
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	1.9	ug/l	
208-96-8	Acenaphthylene	ND	4.9	1.9	ug/l	
120-12-7	Anthracene	ND	4.9	1.9	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	1.9	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	1.9	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	1.9	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	1.9	ug/l	
218-01-9	Chrysene	ND	4.9	1.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.9	1.9	ug/l	
206-44-0	Fluoranthene	ND	4.9	1.9	ug/l	
86-73-7	Fluorene	ND	4.9	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.9	1.9	ug/l	
91-20-3	Naphthalene	34.5	4.9	1.9	ug/l	
90-12-0	1-Methylnaphthalene	10.9	4.9	1.9	ug/l	
91-57-6	2-Methylnaphthalene	23.4	4.9	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.9	1.9	ug/l	
129-00-0	Pyrene	ND	4.9	1.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	107%		42-123%
84-15-1	o-Terphenyl	78%		51-123%

(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:	USTHPFF-MW17A		
Lab Sample ID:	F31163-4	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027281.D	100	04/25/05	RM	n/a	n/a	GQR1229
Run #2	QR027310.D	500	04/27/05	RM	n/a	n/a	GQR1231

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6500	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	197	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	3300	100	50	ug/l	
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	22300 [a]	500	250	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	ND	100	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:	USTHPFF-MW17A		
Lab Sample ID:	F31163-4	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	ND	100	50	ug/l	
1330-20-7	Xylenes (total)	12000	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	101%	99%	64-121%
352-33-0	1-Chloro-4-fluorobenzene	100%	95%	64-121%
563-58-6	1,1-Dichloropropene	98%	100%	84-119%
563-58-6	1,1-Dichloropropene	104%	102%	84-119%

(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:	USTHPFF-MW17A		
Lab Sample ID:	F31163-4	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LL03648.D	10	04/25/05	AA	04/18/05	OP13034	GLL144
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	48	19	ug/l	
208-96-8	Acenaphthylene	ND	48	19	ug/l	
120-12-7	Anthracene	ND	48	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	48	19	ug/l	
50-32-8	Benzo(a)pyrene	ND	48	19	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	48	19	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	48	19	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	48	19	ug/l	
218-01-9	Chrysene	ND	48	19	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	48	19	ug/l	
206-44-0	Fluoranthene	ND	48	19	ug/l	
86-73-7	Fluorene	ND	48	19	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	48	19	ug/l	
91-20-3	Naphthalene	419	48	19	ug/l	
90-12-0	1-Methylnaphthalene	72.2	48	19	ug/l	
91-57-6	2-Methylnaphthalene	134	48	19	ug/l	
85-01-8	Phenanthrene	ND	48	19	ug/l	
129-00-0	Pyrene	ND	48	19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	0% [b]		42-123%
84-15-1	o-Terphenyl	0% [b]		51-123%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

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:	USTHPFF-MW01		
Lab Sample ID:	F31163-5	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027282.D	100	04/25/05	RM	n/a	n/a	GQR1229
Run #2	QR027311.D	500	04/27/05	RM	n/a	n/a	GQR1231

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4480	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	3670	100	50	ug/l	
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	22200 [a]	500	250	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	ND	100	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:	USTHPFF-MW01		
Lab Sample ID:	F31163-5	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	ND	100	50	ug/l	
1330-20-7	Xylenes (total)	15300	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	101%	100%	64-121%
352-33-0	1-Chloro-4-fluorobenzene	104%	100%	64-121%
563-58-6	1,1-Dichloropropene	98%	100%	84-119%
563-58-6	1,1-Dichloropropene	104%	106%	84-119%

(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:	USTHPFF-MW01		
Lab Sample ID:	F31163-5	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LL03688.D	10	04/26/05	AA	04/18/05	OP13034	GLL144
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	49	20	ug/l	
208-96-8	Acenaphthylene	ND	49	20	ug/l	
120-12-7	Anthracene	ND	49	20	ug/l	
56-55-3	Benzo(a)anthracene	ND	49	20	ug/l	
50-32-8	Benzo(a)pyrene	ND	49	20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	49	20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	49	20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	49	20	ug/l	
218-01-9	Chrysene	ND	49	20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	49	20	ug/l	
206-44-0	Fluoranthene	ND	49	20	ug/l	
86-73-7	Fluorene	ND	49	20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	49	20	ug/l	
91-20-3	Naphthalene	355	49	20	ug/l	
90-12-0	1-Methylnaphthalene	39.0	49	20	ug/l	J
91-57-6	2-Methylnaphthalene	75.1	49	20	ug/l	
85-01-8	Phenanthrene	ND	49	20	ug/l	
129-00-0	Pyrene	ND	49	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	83%		42-123%
84-15-1	o-Terphenyl	75%		51-123%

(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:	USTHPFF-MW18		
Lab Sample ID:	F31163-6	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027283.D	100	04/25/05	RM	n/a	n/a	GQR1229
Run #2	QR027312.D	500	04/27/05	RM	n/a	n/a	GQR1231

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	12800 [a]	500	250	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	1870	100	50	ug/l	
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	27800 [a]	500	250	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	ND	100	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:	USTHPFF-MW18		
Lab Sample ID:	F31163-6	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	ND	100	50	ug/l	
1330-20-7	Xylenes (total)	11100	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	101%	99%	64-121%
352-33-0	1-Chloro-4-fluorobenzene	101%	100%	64-121%
563-58-6	1,1-Dichloropropene	97%	99%	84-119%
563-58-6	1,1-Dichloropropene	102%	106%	84-119%

(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:	USTHPFF-MW18		
Lab Sample ID:	F31163-6	Date Sampled:	04/13/05
Matrix:	AQ - Ground Water	Date Received:	04/15/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LL03650.D	20	04/25/05	AA	04/18/05	OP13034	GLL144
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	97	39	ug/l	
208-96-8	Acenaphthylene	ND	97	39	ug/l	
120-12-7	Anthracene	ND	97	39	ug/l	
56-55-3	Benzo(a)anthracene	ND	97	39	ug/l	
50-32-8	Benzo(a)pyrene	ND	97	39	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	97	39	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	97	39	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	97	39	ug/l	
218-01-9	Chrysene	ND	97	39	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	97	39	ug/l	
206-44-0	Fluoranthene	ND	97	39	ug/l	
86-73-7	Fluorene	ND	97	39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	97	39	ug/l	
91-20-3	Naphthalene	562	97	39	ug/l	
90-12-0	1-Methylnaphthalene	39.7	97	39	ug/l	J
91-57-6	2-Methylnaphthalene	88.2	97	39	ug/l	J
85-01-8	Phenanthrene	ND	97	39	ug/l	
129-00-0	Pyrene	ND	97	39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	0% [b]		42-123%
84-15-1	o-Terphenyl	0% [b]		51-123%

(a) All hits confirmed by dual column analysis.
(b) Outside control limits due to dilution.

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-040605		
Lab Sample ID:	F31163-7	Date Sampled:	04/13/05
Matrix:	AQ - Trip Blank Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027263.D	1	04/21/05	RM	n/a	n/a	GQR1228
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	0.55	1.0	0.50	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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-040605		
Lab Sample ID:	F31163-7	Date Sampled:	04/13/05
Matrix:	AQ - Trip Blank Water	Date Received:	04/15/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	99%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	103%		64-121%
563-58-6	1,1-Dichloropropene	100%		84-119%
563-58-6	1,1-Dichloropropene	104%		84-119%

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

F31163

COC Number:
110385-SE-041405

CHAIN-OF-CUSTODY RECORD

Shaw Environmental & Infrastructure, Inc.

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location	Project Number	Contact	PO Number
CAMP LEJEUNE - SE	CAMP LEJEUNE, NC	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: VOA 601/602	Analysis Desired: PAH 610
1	USTHPFF-MW11	4/13/05	10:00		X	USTHPFF-MW11	5	X	X
2	USTHPFFC-MW08	4/13/05	11:00		X	USTHPFFC-MW08	5	X	X
3	USTHPFF-MW10R	4/13/05	12:00		X	USTHPFF-MW10R	5	X	X
4	USTHPFF-MW17A	4/13/05	13:00		X	USTHPFF-MW17A	5	X	X
5	USTHPFF-MW01	4/13/05	14:00		X	USTHPFF-MW01	5	X	X
6	USTHPFF-MW18	4/13/05	15:00		X	USTHPFF-MW18	5	X	X
7	Trip Blank-040605	4/13/05			X	Trip Blank	2	X	
8									
9									
10									

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 – 7		UPS 1Z 71V 098 01 9967 2575	4/14/05	18:00	14 Day TAT
2				4/15/05	10:00	

F31163: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F31163 CLIENT: Shaw E&I PROJECT: 116385

DATE/TIME RECEIVED: 4/15/05 10:10 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2 8

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 Carlos A 4/15/05 TECHNICIAN SIGNATURE/DATE

ASBD02/04/05

F31163: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST.
Laboratories

05/03/05

Technical Report for

Field Support Service Inc

Camp Lejeune-SE

110385

Accutest Job Number: F31238

Sampling Date: 04/18/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **31**

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: F31238

Camp Lejeune-SE
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F31238-1	04/18/05	14:45	MM	04/19/05	AQ	Ground Water	USTHPFF-MWHPFF20
F31238-2	04/18/05	15:30	MM	04/19/05	AQ	Ground Water	USTHPFF-MW19
F31238-3	04/18/05	00:00	MM	04/19/05	AQ	Ground Water	TRIP BLANK-041805

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFF-MWHPFF20		
Lab Sample ID:	F31238-1	Date Sampled:	04/18/05
Matrix:	AQ - Ground Water	Date Received:	04/19/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027286.D	100	04/25/05	RM	n/a	n/a	GQR1229
Run #2	QR027308.D	200	04/27/05	RM	n/a	n/a	GQR1231

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	13200 [a]	200	100	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	1730	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	954	100	50	ug/l	
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	13200 [a]	200	100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	ND	100	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:	USTHPFF-MWHPFF20		
Lab Sample ID:	F31238-1	Date Sampled:	04/18/05
Matrix:	AQ - Ground Water	Date Received:	04/19/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	ND	100	50	ug/l	
1330-20-7	Xylenes (total)	7400	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	100%	99%	64-121%
352-33-0	1-Chloro-4-fluorobenzene	95%	98%	64-121%
563-58-6	1,1-Dichloropropene	98%	99%	84-119%
563-58-6	1,1-Dichloropropene	103%	105%	84-119%

(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:	USTHPFF-MWHPFF20		
Lab Sample ID:	F31238-1	Date Sampled:	04/18/05
Matrix:	AQ - Ground Water	Date Received:	04/19/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LL03662.D	10	04/26/05	AA	04/20/05	OP13051	GLL144
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	48	19	ug/l	
208-96-8	Acenaphthylene	ND	48	19	ug/l	
120-12-7	Anthracene	ND	48	19	ug/l	
56-55-3	Benzo(a)anthracene	ND	48	19	ug/l	
50-32-8	Benzo(a)pyrene	ND	48	19	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	48	19	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	48	19	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	48	19	ug/l	
218-01-9	Chrysene	ND	48	19	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	48	19	ug/l	
206-44-0	Fluoranthene	ND	48	19	ug/l	
86-73-7	Fluorene	ND	48	19	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	48	19	ug/l	
91-20-3	Naphthalene	238	48	19	ug/l	
90-12-0	1-Methylnaphthalene	31.3	48	19	ug/l	J
91-57-6	2-Methylnaphthalene	58.8	48	19	ug/l	
85-01-8	Phenanthrene	ND	48	19	ug/l	
129-00-0	Pyrene	ND	48	19	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	101%		42-123%
84-15-1	o-Terphenyl	87%		51-123%

(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:	USTHPFF-MW19		
Lab Sample ID:	F31238-2	Date Sampled:	04/18/05
Matrix:	AQ - Ground Water	Date Received:	04/19/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR027285.D	10	04/25/05	RM	n/a	n/a	GQR1229
Run #2	QR027307.D	100	04/27/05	RM	n/a	n/a	GQR1231

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3720 [b]	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
74-83-9	Bromomethane	ND	10	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-00-3	Chloroethane	ND	10	5.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	10	5.0	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane [c]	ND	50	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	858 [b]	100	50	ug/l	
75-09-2	Methylene chloride	ND	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.0	ug/l	
108-88-3	Toluene	8230 [b]	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
79-01-6	Trichloroethene	ND	10	5.0	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:	USTHPFF-MW19		
Lab Sample ID:	F31238-2	Date Sampled:	04/18/05
Matrix:	AQ - Ground Water	Date Received:	04/19/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	10	5.0	ug/l	
1330-20-7	Xylenes (total)	4350 [b]	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	98%	99%	64-121%
352-33-0	1-Chloro-4-fluorobenzene	97%	96%	64-121%
563-58-6	1,1-Dichloropropene	96%	99%	84-119%
563-58-6	1,1-Dichloropropene	105%	108%	84-119%

(a) All hits confirmed by GC/MS.
(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:	USTHPFF-MW19		
Lab Sample ID:	F31238-2	Date Sampled:	04/18/05
Matrix:	AQ - Ground Water	Date Received:	04/19/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	LL03663.D	8	04/26/05	AA	04/20/05	OP13051	GLL144
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	38	15	ug/l	
208-96-8	Acenaphthylene	ND	38	15	ug/l	
120-12-7	Anthracene	ND	38	15	ug/l	
56-55-3	Benzo(a)anthracene	ND	38	15	ug/l	
50-32-8	Benzo(a)pyrene	ND	38	15	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	38	15	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	38	15	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	38	15	ug/l	
218-01-9	Chrysene	ND	38	15	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	38	15	ug/l	
206-44-0	Fluoranthene	ND	38	15	ug/l	
86-73-7	Fluorene	ND	38	15	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38	15	ug/l	
91-20-3	Naphthalene	235	38	15	ug/l	
90-12-0	1-Methylnaphthalene	21.3	38	15	ug/l	J
91-57-6	2-Methylnaphthalene	48.3	38	15	ug/l	
85-01-8	Phenanthrene	ND	38	15	ug/l	
129-00-0	Pyrene	ND	38	15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	105%		42-123%
84-15-1	o-Terphenyl	83%		51-123%

(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:	TRIP BLANK-041805		
Lab Sample ID:	F31238-3	Date Sampled:	04/18/05
Matrix:	AQ - Ground Water	Date Received:	04/19/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR027306.D	1	04/27/05	RM	n/a	n/a	GQR1231
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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-041805		
Lab Sample ID:	F31238-3	Date Sampled:	04/18/05
Matrix:	AQ - Ground Water	Date Received:	04/19/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	99%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	97%		64-121%
563-58-6	1,1-Dichloropropene	100%		84-119%
563-58-6	1,1-Dichloropropene	106%		84-119%

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

F31238

COC Number:
110385-SE-041805

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - SE	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
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	VOA 601/602	PAH 610	Analysis Desired
1	USTHPFF-MWHPFF20	4/18/05	14:45		X	USTHPFF-MWHPFF20	5	X	X	
2	USTHPFFC-MW19	4/18/05	15:30		X	USTHPFFC-MW19	5	X	X	
3	Trip Blank-041805	4/18/05			X	Trip Blank	2	X		
4										
5										
6										
7										
8										
9										
10										

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 3		UPS 1Z 71V 098 01 9596 7595	4/19/05	18:00	14 Day TAT
2		UPS		4/19/05	10:30	

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F31238: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F31238 CLIENT: SHAW E+I PROJECT: 110385

DATE/TIME RECEIVED: 4/19/05 10:30 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.6

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

AIRBILL NUMBERS: FI 328 9-02

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 ? ~~6~~

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: [signature] 4/19/05 TECHNICIAN SIGNATURE/DATE:

ASBD02/04/05

F31238: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST
Laboratories

09/06/05

Technical Report for

Field Support Service Inc

Camp Lejeune-SE

110385

Accutest Job Number: F34255

Sampling Dates: 08/20/05 - 08/22/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **43**

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: F34255

Camp Lejeune-SE
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F34255-1	08/20/05	10:00	RK	08/23/05	AQ	Ground Water	USTHPFFC-MW01
F34255-2	08/20/05	11:00	RK	08/23/05	AQ	Ground Water	USTHPFFC-MW07
F34255-3	08/20/05	12:00	RK	08/23/05	AQ	Ground Water	USTHPFFC-MW11
F34255-4	08/22/05	11:30	RK	08/23/05	AQ	Ground Water	USTHPFFC-MW05
F34255-5	08/22/05	10:45	RK	08/23/05	AQ	Ground Water	USTHPFFC-MW09
F34255-6	08/22/05	00:00	RK	08/23/05	AQ	Trip Blank Water	TRIP BLANK-082205

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFFC-MW01		
Lab Sample ID:	F34255-1	Date Sampled:	08/20/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028927.D	1	09/01/05	JG	n/a	n/a	GQR1299
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW01		
Lab Sample ID:	F34255-1	Date Sampled:	08/20/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	104%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	105%		64-121%
563-58-6	1,1-Dichloropropene	96%		84-119%
563-58-6	1,1-Dichloropropene	106%		84-119%

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:	USTHPFFC-MW01		
Lab Sample ID:	F34255-1	Date Sampled:	08/20/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007754.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
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	80%		36-114%
92-94-4	p-Terphenyl	87%		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:	USTHPFFC-MW07		
Lab Sample ID:	F34255-2	Date Sampled:	08/20/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028943.D	1	09/01/05	JG	n/a	n/a	GQR1300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW07		
Lab Sample ID:	F34255-2	Date Sampled:	08/20/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	106%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	105%		64-121%
563-58-6	1,1-Dichloropropene	96%		84-119%
563-58-6	1,1-Dichloropropene	101%		84-119%

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:	USTHPFFC-MW07		
Lab Sample ID:	F34255-2	Date Sampled:	08/20/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007755.D	1	08/31/05	MRE	08/24/05	OP14215	GPP284
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	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:	USTHPFFC-MW11		
Lab Sample ID:	F34255-3	Date Sampled:	08/20/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028944.D	1	09/01/05	JG	n/a	n/a	GQR1300
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	44.7	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	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	74.6	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.1	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	0.83	1.0	0.50	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW11		
Lab Sample ID:	F34255-3	Date Sampled:	08/20/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	2.9	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	104%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	109%		64-121%
563-58-6	1,1-Dichloropropene	94%		84-119%
563-58-6	1,1-Dichloropropene	102%		84-119%

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:	USTHPFFC-MW11		
Lab Sample ID:	F34255-3	Date Sampled:	08/20/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007758.D	1	09/01/05	MRE	08/24/05	OP14215	GPP284
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	66%		36-114%
92-94-4	p-Terphenyl	74%		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:	USTHPFFC-MW05		
Lab Sample ID:	F34255-4	Date Sampled:	08/22/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028928.D	1	09/01/05	JG	n/a	n/a	GQR1299
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	1.2	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.81	1.0	0.50	ug/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW05		
Lab Sample ID:	F34255-4	Date Sampled:	08/22/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	104%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	103%		64-121%
563-58-6	1,1-Dichloropropene	96%		84-119%
563-58-6	1,1-Dichloropropene	101%		84-119%

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:	USTHPFFC-MW05		
Lab Sample ID:	F34255-4	Date Sampled:	08/22/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007759.D	1	09/01/05	MRE	08/24/05	OP14215	GPP284
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.8	0.94	ug/l	
208-96-8	Acenaphthylene	ND	3.8	0.94	ug/l	
120-12-7	Anthracene	ND	1.9	0.94	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.19	0.047	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.19	0.094	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.19	0.047	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.19	0.094	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.19	0.094	ug/l	
218-01-9	Chrysene	ND	1.9	0.94	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.19	0.047	ug/l	
206-44-0	Fluoranthene	ND	1.9	0.47	ug/l	
86-73-7	Fluorene	ND	1.9	0.94	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.19	0.047	ug/l	
91-20-3	Naphthalene	ND	1.9	0.94	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.9	0.47	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.9	0.47	ug/l	
85-01-8	Phenanthrene	ND	1.9	0.94	ug/l	
129-00-0	Pyrene	ND	1.9	0.47	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		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:	USTHPFFC-MW09		
Lab Sample ID:	F34255-5	Date Sampled:	08/22/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028945.D	5	09/01/05	JG	n/a	n/a	GQR1300
Run #2 [a]	QR028924.D	50	08/31/05	JG	n/a	n/a	GQR1299

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	293	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	55.6	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	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:	USTHPFFC-MW09		
Lab Sample ID:	F34255-5	Date Sampled:	08/22/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
1330-20-7	Xylenes (total)	ND	15	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	105%	104%	64-121%
352-33-0	1-Chloro-4-fluorobenzene	112%	104%	64-121%
563-58-6	1,1-Dichloropropene	97%	96%	84-119%
563-58-6	1,1-Dichloropropene	103%	102%	84-119%

(a) Confirmation run.

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:	USTHPFFC-MW09		
Lab Sample ID:	F34255-5	Date Sampled:	08/22/05
Matrix:	AQ - Ground Water	Date Received:	08/23/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007664.D	1	08/29/05	MRE	08/26/05	OP14246	GPP282
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	84%		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:	TRIP BLANK-082205		
Lab Sample ID:	F34255-6	Date Sampled:	08/22/05
Matrix:	AQ - Trip Blank Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028929.D	1	09/01/05	JG	n/a	n/a	GQR1299
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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-082205		
Lab Sample ID:	F34255-6	Date Sampled:	08/22/05
Matrix:	AQ - Trip Blank Water	Date Received:	08/23/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	104%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	108%		64-121%
563-58-6	1,1-Dichloropropene	96%		84-119%
563-58-6	1,1-Dichloropropene	104%		84-119%

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

F34255

COC Number:
110385-SE-082205

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location	Project Number	Contact	PO Number
CAMP LEJEUNE - SE	CAMP LEJEUNE, NC	110385	Mark Martin	FSSI

Client Rep: US NAVY - LANTDIV

Project Manager: Ron Kenyon

Analysis Desired

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	VOA 601/602	PAH 610
1	USTHPFFC-MW01	8/20/05	10:00		X	USTHPFFC-MW01	5	X	X
2	USTHPFFC-MW07	8/20/05	11:00		X	USTHPFFC-MW07	5	X	X
3	USTHPFF-MW11	8/20/05	12:00		X	USTHPFF-MW11	5	X	X
4	USTHPFFC-MW05	8/22/05	11:30		X	USTHPFFC-MW05	5	X	X
5	USTHPFFC-MW09	8/22/05	10:45		X	USTHPFFC-MW09	5	X	X
6	Trip Blank-082205	8/22/05			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 1Z 71V 098 15 9347 6138	8/22/05	18:00	14 Day TAT
2		UPS	Steven Croson	8-23-05	6:00	

2.0

F34255: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F34255 CLIENT: Shaw E&E PROJECT: Camp Lejeune -SE

DATE/TIME RECEIVED: 8-23-05/8:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.0

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

AIRBILL NUMBERS: 1Z-71V-048-15-9347-6136

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 Barry/8-23-05 TECHNICIAN SIGNATURE/DATE:

ASBD06/22/05

3.1 C

F34255: Chain of Custody
Page 2 of 2

4

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Southeast
ACCUTEST.
Laboratories

09/13/05

Technical Report for

Field Support Service Inc

Camp Lejeune-SE

110385

Accutest Job Number: F34419

Sampling Date: 08/27/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **26**

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: F34419

Camp Lejeune-SE
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F34419-1	08/27/05	10:00	RK	08/30/05	AQ	Ground Water	USTHPFFC-MW11
F34419-2	08/27/05	11:00	RK	08/30/05	AQ	Ground Water	USTHPFFC-MW10
F34419-3	08/27/05	12:00	RK	08/30/05	AQ	Ground Water	USTHPFFC-MW10R

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFFC-MW11		
Lab Sample ID:	F34419-1	Date Sampled:	08/27/05
Matrix:	AQ - Ground Water	Date Received:	08/30/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR028930.D	1	09/01/05	JG	n/a	n/a	GQR1299
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.3	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	1.3	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW11		
Lab Sample ID:	F34419-1	Date Sampled:	08/27/05
Matrix:	AQ - Ground Water	Date Received:	08/30/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	104%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	103%		64-121%
563-58-6	1,1-Dichloropropene	96%		84-119%
563-58-6	1,1-Dichloropropene	104%		84-119%

(a) All hits confirmed by GC/MS.

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:	USTHPFFC-MW11		
Lab Sample ID:	F34419-1	Date Sampled:	08/27/05
Matrix:	AQ - Ground Water	Date Received:	08/30/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007933.D	1	09/09/05	MRE	08/31/05	OP14291	GPP290
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	90%		36-114%
92-94-4	p-Terphenyl	84%		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:	USTHPFFC-MW10		
Lab Sample ID:	F34419-2	Date Sampled:	08/27/05
Matrix:	AQ - Ground Water	Date Received:	08/30/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR028931.D	1	09/01/05	JG	n/a	n/a	GQR1299
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	9.0	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW10		
Lab Sample ID:	F34419-2	Date Sampled:	08/27/05
Matrix:	AQ - Ground Water	Date Received:	08/30/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	1.1	3.0	1.0	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	106%		64-121%
563-58-6	1,1-Dichloropropene	96%		84-119%
563-58-6	1,1-Dichloropropene	103%		84-119%

(a) All hits confirmed by GC/MS.

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:	USTHPFFC-MW10		
Lab Sample ID:	F34419-2	Date Sampled:	08/27/05
Matrix:	AQ - Ground Water	Date Received:	08/30/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007936.D	1	09/09/05	MRE	08/31/05	OP14291	GPP290
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	72%		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:	USTHPFFC-MW10R		
Lab Sample ID:	F34419-3	Date Sampled:	08/27/05
Matrix:	AQ - Ground Water	Date Received:	08/30/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR028935.D	50	09/01/05	JG	n/a	n/a	GQR1299
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1060	50	25	ug/l	
75-27-4	Bromodichloromethane	ND	50	25	ug/l	
75-25-2	Bromoform	ND	50	25	ug/l	
74-83-9	Bromomethane	ND	50	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
124-48-1	Dibromochloromethane	ND	50	20	ug/l	
75-00-3	Chloroethane	ND	50	25	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	50	25	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	ND	50	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	25	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	319	50	25	ug/l	
75-09-2	Methylene chloride	ND	250	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	10	ug/l	
127-18-4	Tetrachloroethene	ND	50	25	ug/l	
108-88-3	Toluene	929	50	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	25	ug/l	
79-01-6	Trichloroethene	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:	USTHPFFC-MW10R		
Lab Sample ID:	F34419-3	Date Sampled:	08/27/05
Matrix:	AQ - Ground Water	Date Received:	08/30/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	50	25	ug/l	
75-01-4	Vinyl chloride	ND	50	25	ug/l	
1330-20-7	Xylenes (total)	1510	150	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	105%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	106%		64-121%
563-58-6	1,1-Dichloropropene	97%		84-119%
563-58-6	1,1-Dichloropropene	102%		84-119%

(a) All hits confirmed by GC/MS.

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:	USTHPFFC-MW10R		
Lab Sample ID:	F34419-3	Date Sampled:	08/27/05
Matrix:	AQ - Ground Water	Date Received:	08/30/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007937.D	1	09/09/05	MRE	08/31/05	OP14291	GPP290
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	0.27	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	53.6	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	22.7	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	44.7	1.9	0.48	ug/l	
85-01-8	Phenanthrene	1.2	1.9	0.96	ug/l	J
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	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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F34419

CHAIN-OF-CUSTODY RECORD

COC Number:
110385-SE-082905

Shaw
Shaw Environmental & Infrastructure, Inc.

3.1
3

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - SE	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
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	VOA 601/602	PAH 610
1	USTHPFFC-MW11	8/27/05	10:00		X	USTHPFFC-MW11	5	X	X
2	USTHPFFC-MW10	8/27/05	11:00			USTHPFFC-MW10	5	X	X
3	USTHPFF-MW10R	8/27/05	12:00			USTHPFF-MW10R	5	X	X
4	Trip Blank-082905	8/22/05			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 1Z 71V 098 15 9031 2971	8/29/05	18:00	14 Day TAT
2		UPS		8/30/05	08:40	

F34419: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories
F34419

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F34419 CLIENT: SHAW E+I PROJECT: 110385

DATE/TIME RECEIVED: 8/30/05 1035 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2-6

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

AIRBILL NUMBERS:

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
- [ ] 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
- [X] 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 ? 0

NUMBER OF 5035 FIELD KITS ? 0

SUMMARY OF COMMENTS: D.D N't Receive T-B AS INDICATED ON THE C-O-C

TECHNICIAN SIGNATURE/DATE AP 8/30/05 TECHNICIAN SIGNATURE/DATE Shawn Eason 8-30-05

ASBD06/22/05

3.1 3

F34419: Chain of Custody
Page 2 of 2

Southeast
ACCUTEST.
Laboratories

09/14/05

Technical Report for

Field Support Service Inc

Camp Lejeune-SE

110385

Accutest Job Number: F34529

Sampling Date: 08/31/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **41**

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: F34529

Camp Lejeune-SE
Project No: 110385

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F34529-1	08/31/05	13:00	RK	09/02/05	AQ	Ground Water	USTHPFFC-MW20
F34529-2	08/31/05	14:00	RK	09/02/05	AQ	Ground Water	USTHPFFC-MW08
F34529-3	08/31/05	15:00	RK	09/02/05	AQ	Ground Water	USTHPFFC-MW17
F34529-4	08/31/05	16:00	RK	09/02/05	AQ	Ground Water	USTHPFFC-MW18
F34529-5	08/31/05	17:00	RK	09/02/05	AQ	Ground Water	USTHPFFC-MW01
F34529-6	08/31/05	00:00	RK	09/02/05	AQ	Trip Blank Water	TRIP BLANK

Accutest Laboratories

Report of Analysis

Client Sample ID:	USTHPFFC-MW20		
Lab Sample ID:	F34529-1	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR029035.D	20	09/09/05	JG	n/a	n/a	GQR1305
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1030	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
74-83-9	Bromomethane	ND	20	10	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-00-3	Chloroethane	ND	20	10	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	20	10	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	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	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethene	ND	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	537	20	10	ug/l	
75-09-2	Methylene chloride	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.0	ug/l	
127-18-4	Tetrachloroethene	ND	20	10	ug/l	
108-88-3	Toluene	498	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
79-01-6	Trichloroethene	ND	20	10	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:	USTHPFFC-MW20		
Lab Sample ID:	F34529-1	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	10	ug/l	
75-01-4	Vinyl chloride	ND	20	10	ug/l	
1330-20-7	Xylenes (total)	1810	60	20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	101%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	106%		64-121%
563-58-6	1,1-Dichloropropene	97%		84-119%
563-58-6	1,1-Dichloropropene	103%		84-119%

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:	USTHPFFC-MW20		
Lab Sample ID:	F34529-1	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007943.D	1	09/09/05	MRE	09/06/05	OP14329	GPP290
Run #2 [a]	PP007955.D	2	09/12/05	MRE	09/06/05	OP14329	GPP291

	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	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	101 [b]	3.8	1.9	ug/l	
90-12-0	1-Methylnaphthalene	14.5	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	32.3	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%	84%	36-114%
92-94-4	p-Terphenyl	75%	73%	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:	USTHPFFC-MW08		
Lab Sample ID:	F34529-2	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR029036.D	100	09/09/05	JG	n/a	n/a	GQR1305
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7710	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	349	100	50	ug/l	
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	145	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	ND	100	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:	USTHPFFC-MW08		
Lab Sample ID:	F34529-2	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	ND	100	50	ug/l	
1330-20-7	Xylenes (total)	801	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	100%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	104%		64-121%
563-58-6	1,1-Dichloropropene	97%		84-119%
563-58-6	1,1-Dichloropropene	104%		84-119%

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:	USTHPFFC-MW08		
Lab Sample ID:	F34529-2	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007944.D	1	09/09/05	MRE	09/06/05	OP14329	GPP290
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	80.9	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	10.1	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	14.5	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	92%		36-114%
92-94-4	p-Terphenyl	82%		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:	USTHPFFC-MW17		
Lab Sample ID:	F34529-3	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028991.D	100	09/08/05	JG	n/a	n/a	GQR1303
Run #2	QR029038.D	500	09/09/05	JG	n/a	n/a	GQR1305

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7380	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	221	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	3270	100	50	ug/l	
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	104	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	26200 [a]	500	250	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	ND	100	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:	USTHPFFC-MW17		
Lab Sample ID:	F34529-3	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	ND	100	50	ug/l	
1330-20-7	Xylenes (total)	12300	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	100%	102%	64-121%
352-33-0	1-Chloro-4-fluorobenzene	103%	103%	64-121%
563-58-6	1,1-Dichloropropene	99%	97%	84-119%
563-58-6	1,1-Dichloropropene	106%	104%	84-119%

(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:	USTHPFFC-MW17		
Lab Sample ID:	F34529-3	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007945.D	1	09/09/05	MRE	09/06/05	OP14329	GPP290
Run #2 [a]	PP007956.D	5	09/12/05	MRE	09/06/05	OP14329	GPP291

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND [b]	19	4.8	ug/l	
208-96-8	Acenaphthylene	ND [b]	19	4.8	ug/l	
120-12-7	Anthracene	ND [b]	9.5	4.8	ug/l	
56-55-3	Benzo(a)anthracene	0.66	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.37	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	0.38	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.20	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.18	0.19	0.095	ug/l	J
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 [b]	9.5	2.4	ug/l	
86-73-7	Fluorene	ND [b]	9.5	4.8	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.20	0.19	0.048	ug/l	
91-20-3	Naphthalene	373 [b]	9.5	4.8	ug/l	
90-12-0	1-Methylnaphthalene	67.2 [b]	9.5	2.4	ug/l	
91-57-6	2-Methylnaphthalene	158 [b]	9.5	2.4	ug/l	
85-01-8	Phenanthrene	ND [b]	9.5	4.8	ug/l	
129-00-0	Pyrene	2.6 [b]	9.5	2.4	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%	74%	36-114%
92-94-4	p-Terphenyl	83%	79%	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:	USTHPFFC-MW18		
Lab Sample ID:	F34529-4	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QR028992.D	100	09/08/05	JG	n/a	n/a	GQR1303
Run #2	QR029039.D	500	09/09/05	JG	n/a	n/a	GQR1305

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	12300 [b]	500	250	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	91.3	100	50	ug/l	J
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	1680	100	50	ug/l	
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	28400 [b]	500	250	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	ND	100	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:	USTHPFFC-MW18		
Lab Sample ID:	F34529-4	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	ND	100	50	ug/l	
1330-20-7	Xylenes (total)	10600	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	99%	101%	64-121%
352-33-0	1-Chloro-4-fluorobenzene	99%	105%	64-121%
563-58-6	1,1-Dichloropropene	98%	97%	84-119%
563-58-6	1,1-Dichloropropene	105%	105%	84-119%

(a) All hits confirmed by GC/MS.
(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:	USTHPFFC-MW18		
Lab Sample ID:	F34529-4	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	PP007946.D	1	09/09/05	MRE	09/06/05	OP14329	GPP290
Run #2 [a]	PP007957.D	8	09/12/05	MRE	09/06/05	OP14329	GPP291

	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 [b]	31	7.7	ug/l	
208-96-8	Acenaphthylene	ND [b]	31	7.7	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	487 [b]	15	7.7	ug/l	
90-12-0	1-Methylnaphthalene	36.2 [b]	15	3.8	ug/l	
91-57-6	2-Methylnaphthalene	80.8 [b]	15	3.8	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%	86%	36-114%
92-94-4	p-Terphenyl	84%	81%	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:	USTHPFFC-MW01		
Lab Sample ID:	F34529-5	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028993.D	100	09/08/05	JG	n/a	n/a	GQR1303
Run #2	QR029040.D	500	09/09/05	JG	n/a	n/a	GQR1305

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4140	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	3850	100	50	ug/l	
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	24400 [a]	500	250	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	ND	100	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:	USTHPFFC-MW01		
Lab Sample ID:	F34529-5	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	ND	100	50	ug/l	
1330-20-7	Xylenes (total)	17200	300	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	100%	102%	64-121%
352-33-0	1-Chloro-4-fluorobenzene	104%	106%	64-121%
563-58-6	1,1-Dichloropropene	100%	98%	84-119%
563-58-6	1,1-Dichloropropene	105%	106%	84-119%

(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:	USTHPFFC-MW01		
Lab Sample ID:	F34529-5	Date Sampled:	08/31/05
Matrix:	AQ - Ground Water	Date Received:	09/02/05
Method:	EPA 610 EPA 610	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	PP007949.D	1	09/09/05	MRE	09/06/05	OP14329	GPP290
Run #2 [a]	PP007960.D	8	09/12/05	MRE	09/06/05	OP14329	GPP291

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

BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND [b]	30	7.6	ug/l	
208-96-8	Acenaphthylene	ND [b]	30	7.6	ug/l	
120-12-7	Anthracene	ND [b]	15	7.6	ug/l	
56-55-3	Benzo(a)anthracene	0.30	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.20	0.19	0.095	ug/l	
205-99-2	Benzo(b)fluoranthene	0.21	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.14	0.19	0.095	ug/l	J
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 [b]	15	3.8	ug/l	
86-73-7	Fluorene	ND [b]	15	7.6	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.11	0.19	0.048	ug/l	J
91-20-3	Naphthalene	542 [b]	15	7.6	ug/l	
90-12-0	1-Methylnaphthalene	99.3 [b]	15	3.8	ug/l	
91-57-6	2-Methylnaphthalene	267 [b]	15	3.8	ug/l	
85-01-8	Phenanthrene	ND [b]	15	7.6	ug/l	
129-00-0	Pyrene	ND [b]	15	3.8	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%	114%	36-114%
92-94-4	p-Terphenyl	86%	82%	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:	TRIP BLANK		
Lab Sample ID:	F34529-6	Date Sampled:	08/31/05
Matrix:	AQ - Trip Blank Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR028982.D	1	09/07/05	JG	n/a	n/a	GQR1303
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	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	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	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	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	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:	F34529-6	Date Sampled:	08/31/05
Matrix:	AQ - Trip Blank Water	Date Received:	09/02/05
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-SE		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	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
352-33-0	1-Chloro-4-fluorobenzene	98%		64-121%
352-33-0	1-Chloro-4-fluorobenzene	99%		64-121%
563-58-6	1,1-Dichloropropene	100%		84-119%
563-58-6	1,1-Dichloropropene	106%		84-119%

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

F34529

COC Number:
110385-SE-083105

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw Environmental & Infrastructure, Inc. - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390

Receiving Lab: ACCUTEST

Project Name	Project Location
CAMP LEJEUNE - SE	CAMP LEJEUNE, NC

Project Number	Contact	PO Number
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: VOA 601/602	Analysis Desired: PAH 610
1	USTHPFFC-MW20	8/31/05	13:00		X	USTHPFFC-MW20	5	X	X
2	USTHPFFC-MW08	8/31/05	14:00		X	USTHPFFC-MW08	5	X	X
3	USTHPFF-MW17	8/31/05	15:00		X	USTHPFF-MW17	5	X	X
4	USTHPFF-MW18	8/31/05	16:00		X	USTHPFF-MW18	5	X	X
5	USTHPFF-MW01	8/31/05	17:00		X	USTHPFF-MW01	5	X	X
6	Trip Blank-083105	8/31/05			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 1Z 71V 098 15 9223 3017	9/1/05	18:00	14 Day TAT
2		UPS		9-2-05	8:00	

3.0 2.4

F34529: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F34529 CLIENT: Shaw ENT PROJECT: Camp Lejeune -6E

DATE/TIME RECEIVED: 9-2-06/ 6:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: IR 2.4 SFC

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

AIRBILL NUMBERS: 1Z-71V-0846-15-9223-3017

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 ? 00

NUMBER OF 5035 FIELD KITS ? 00

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE: Shawn Cronin/9-2-06 TECHNICIAN SIGNATURE/DATE:

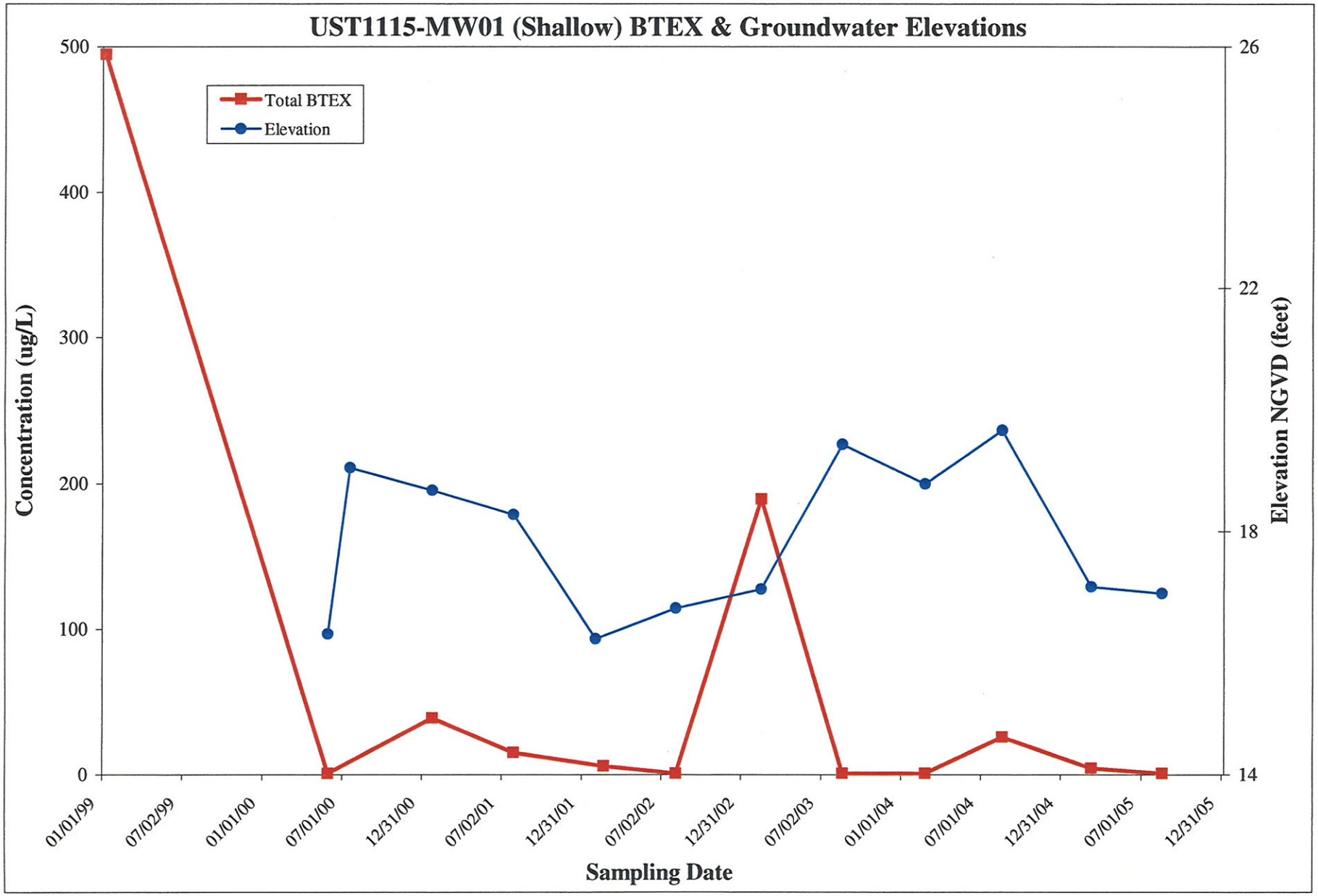
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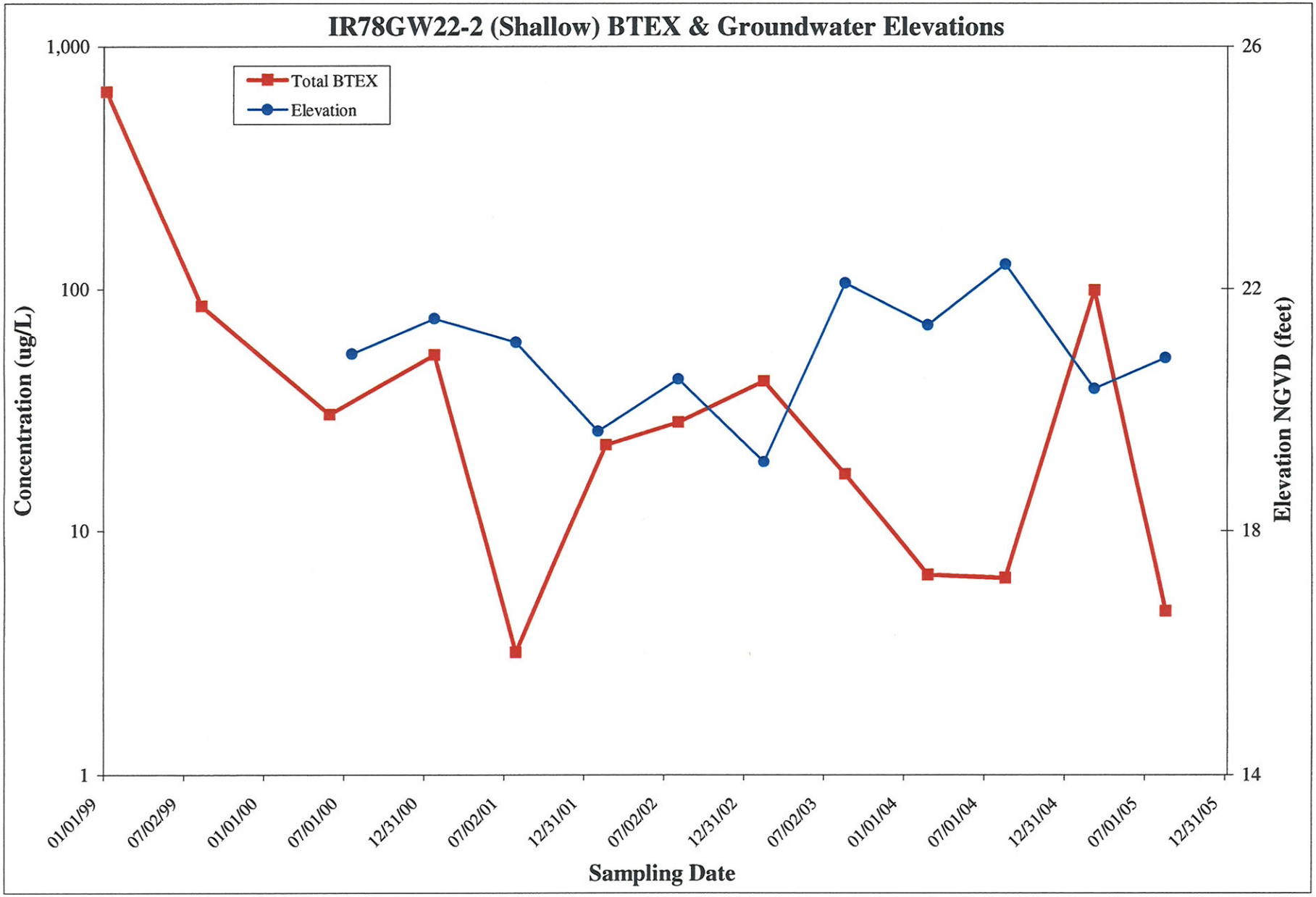
3.1 C

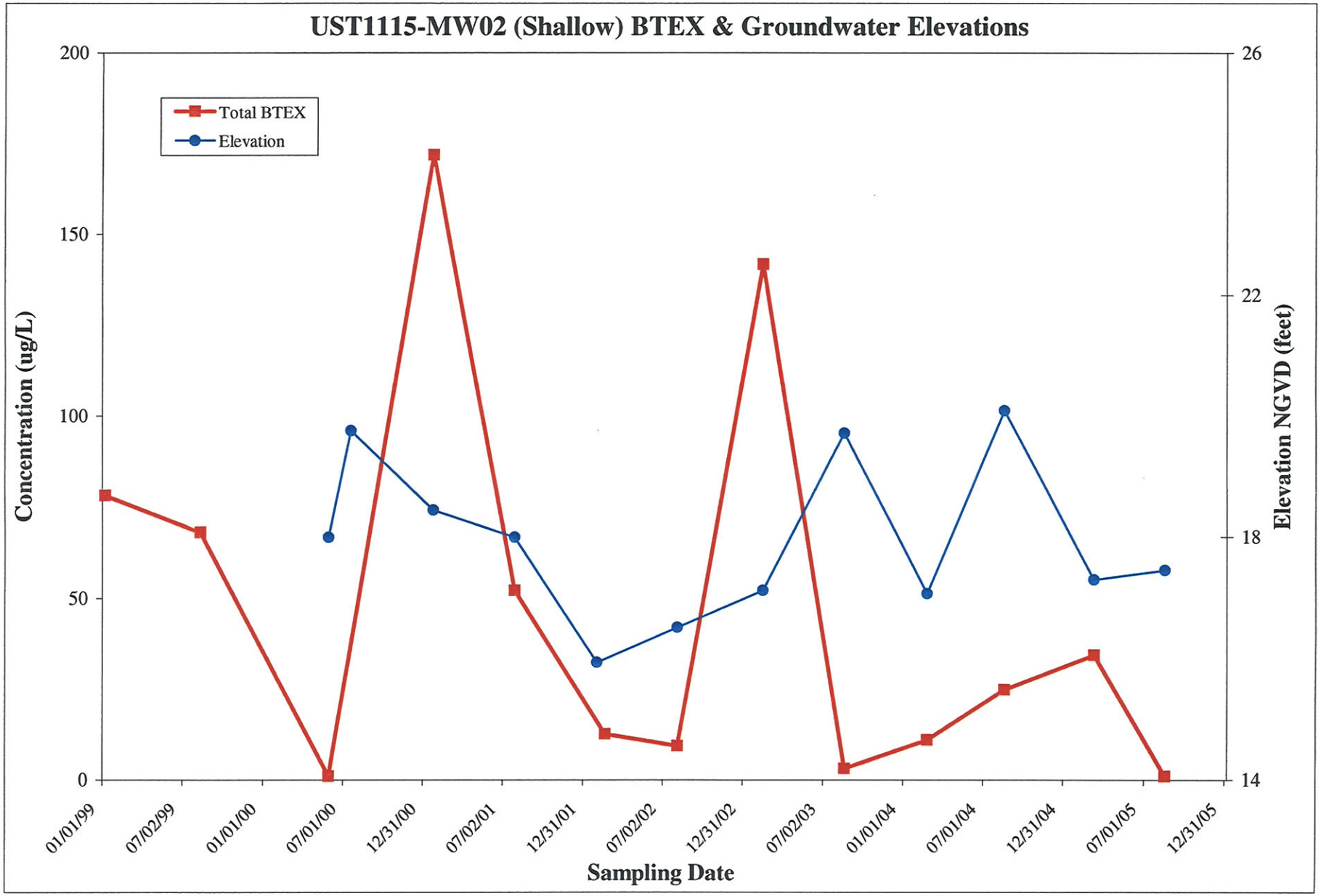
F34529: Chain of Custody
Page 2 of 2

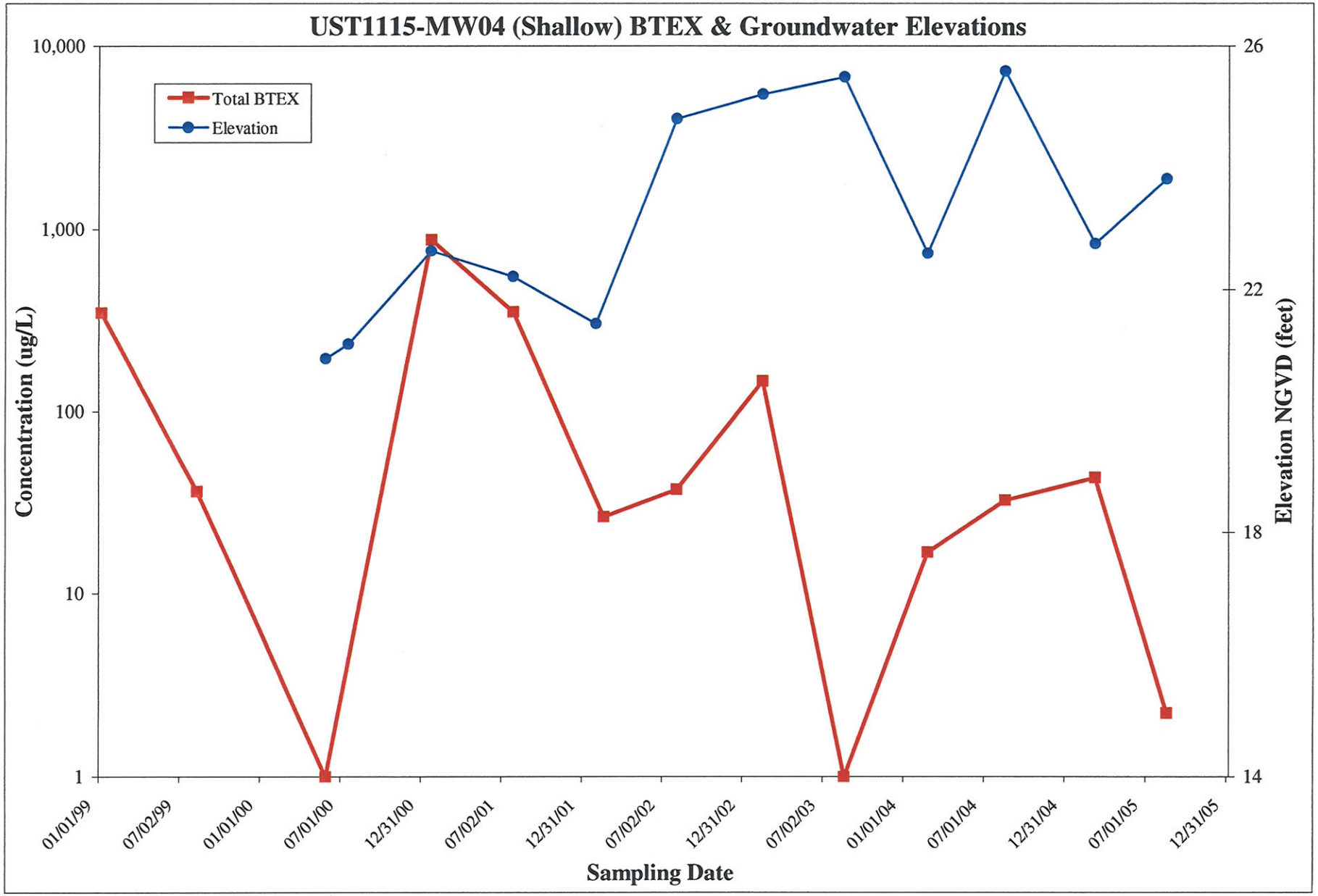
APPENDIX F

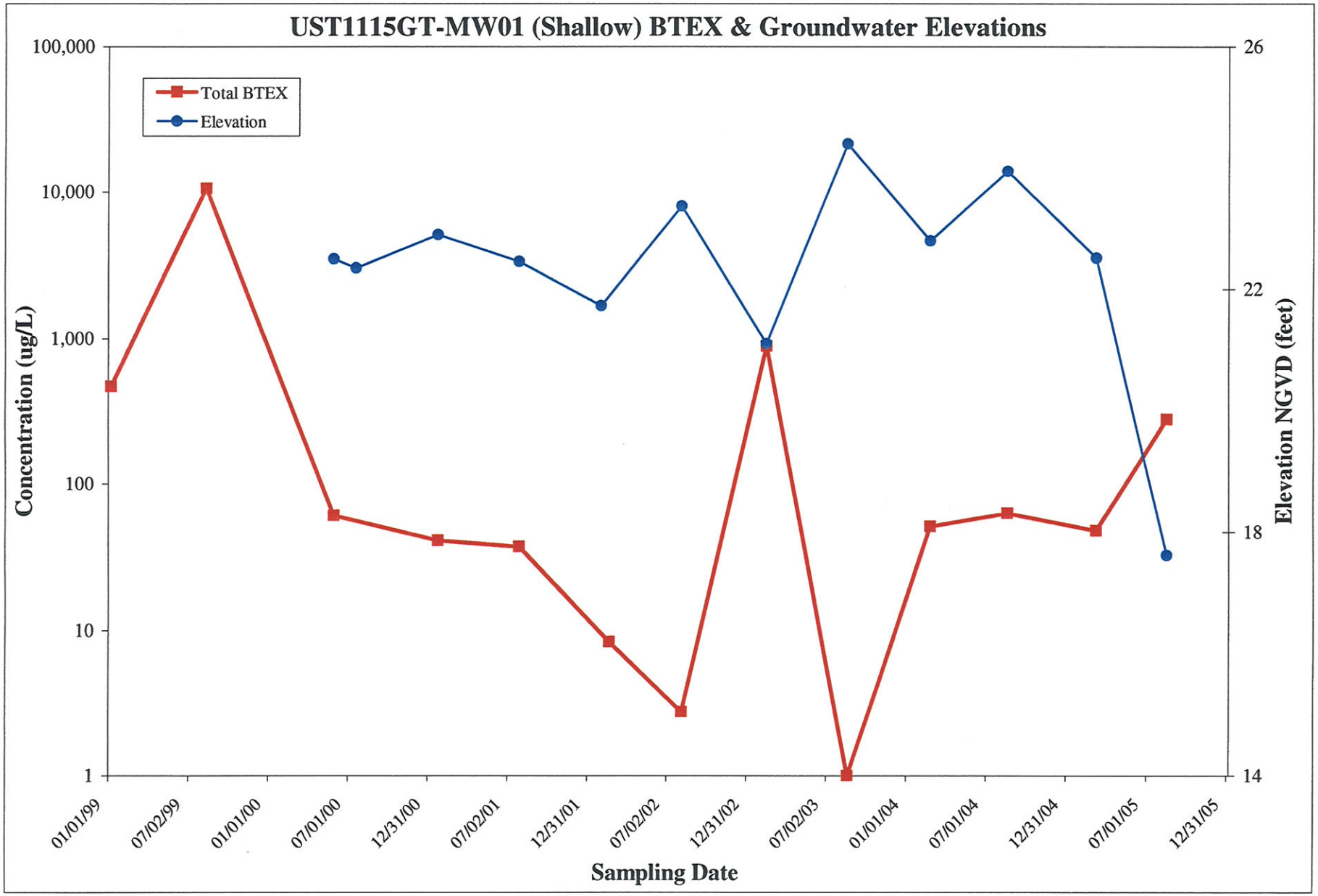
HYDROGRAPHS WITH GROUNDWATER ANALYTICAL RESULTS

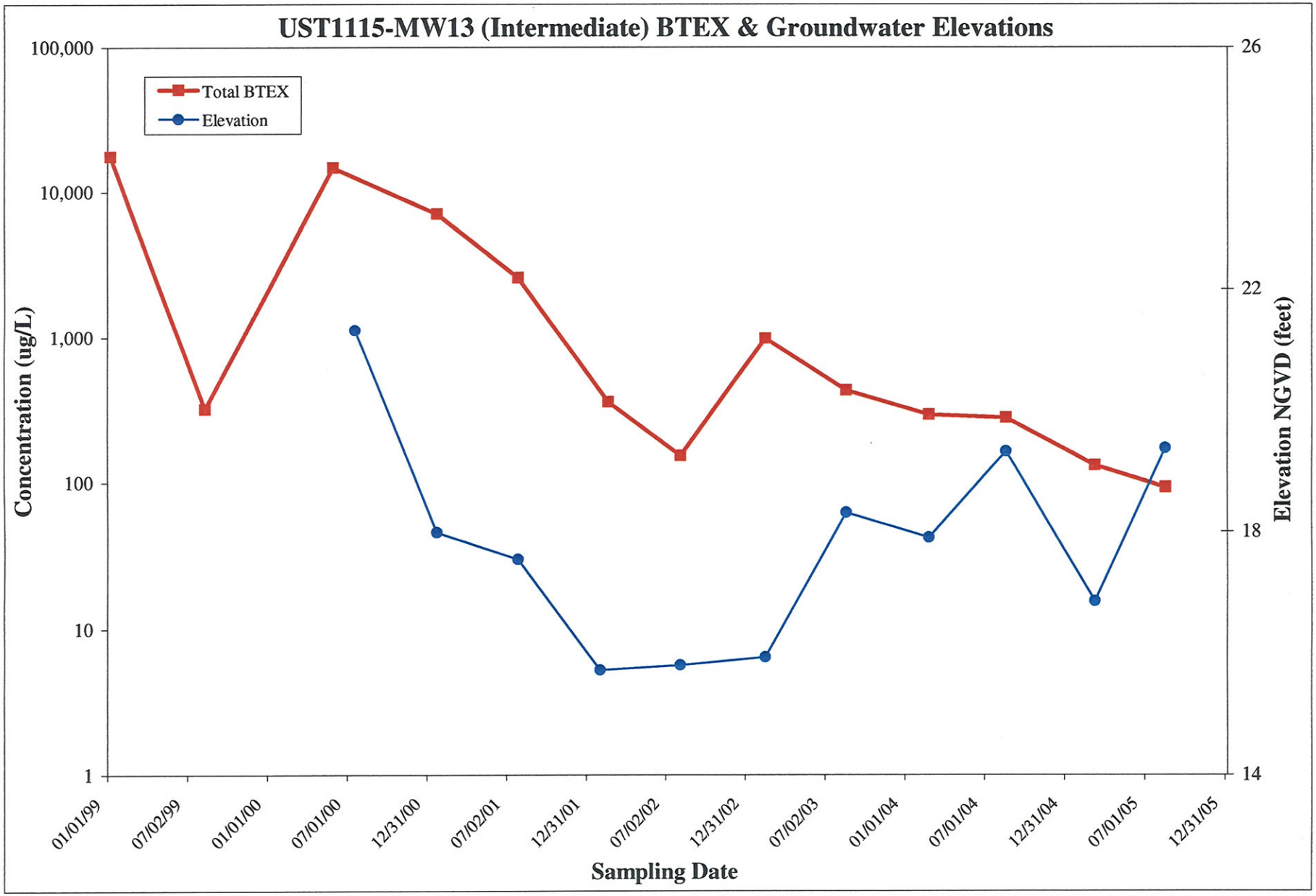

UST1115-MW01 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
500
400
300
200
100
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
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12/31/05

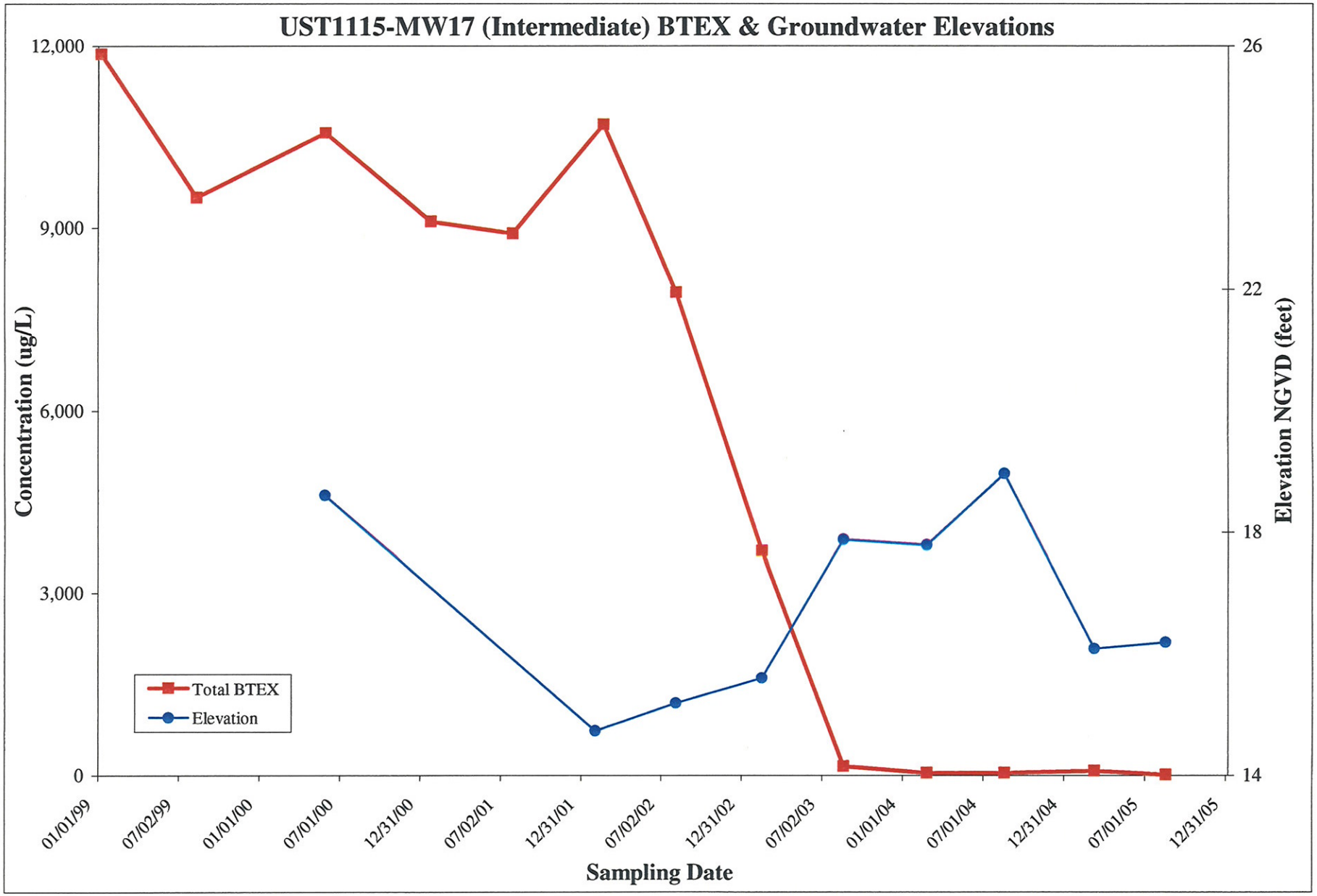

IR78GW22-2 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
1,000
100
10
1
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

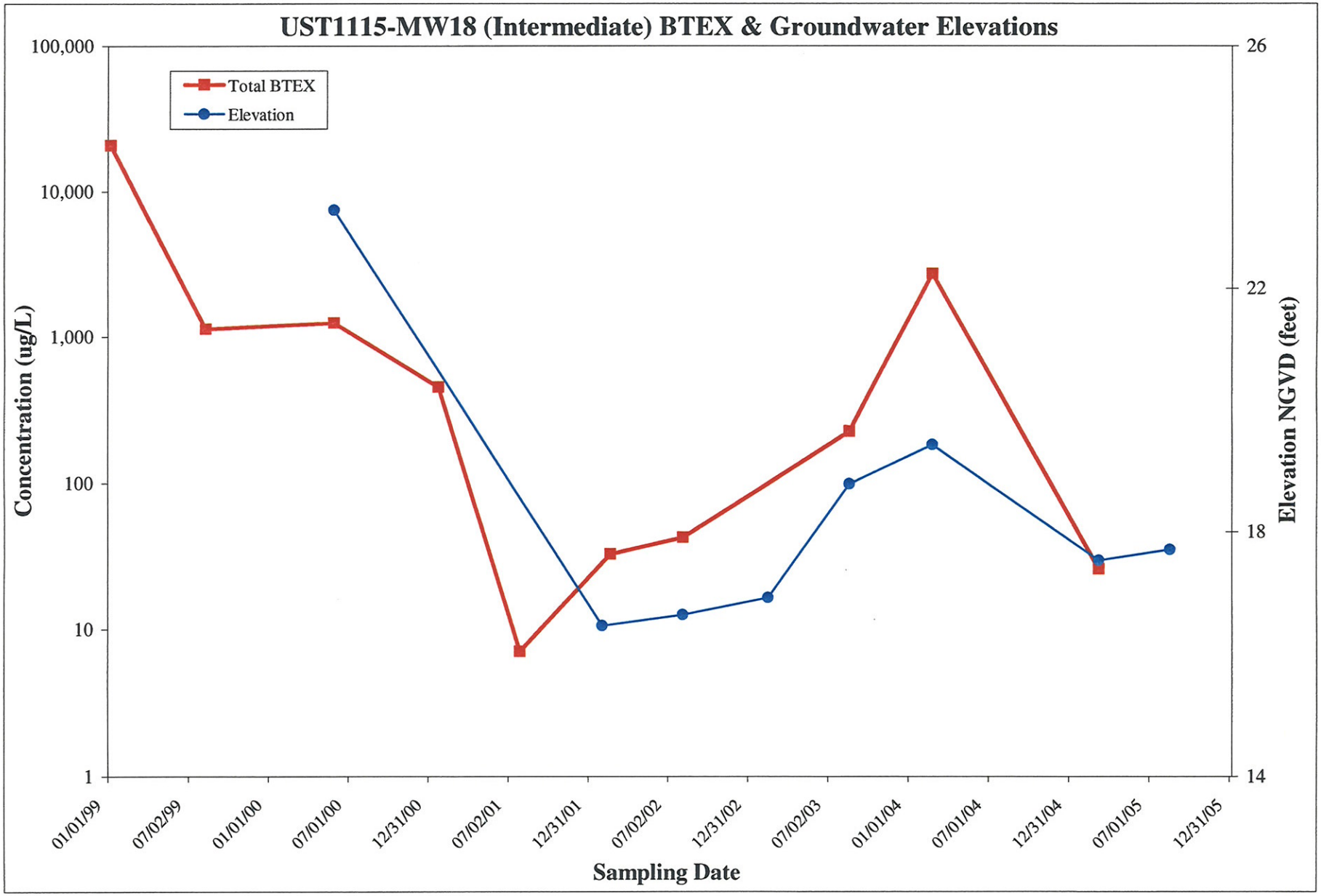

UST1115-MW02 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
200
150
100
50
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
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07/01/05
12/31/05

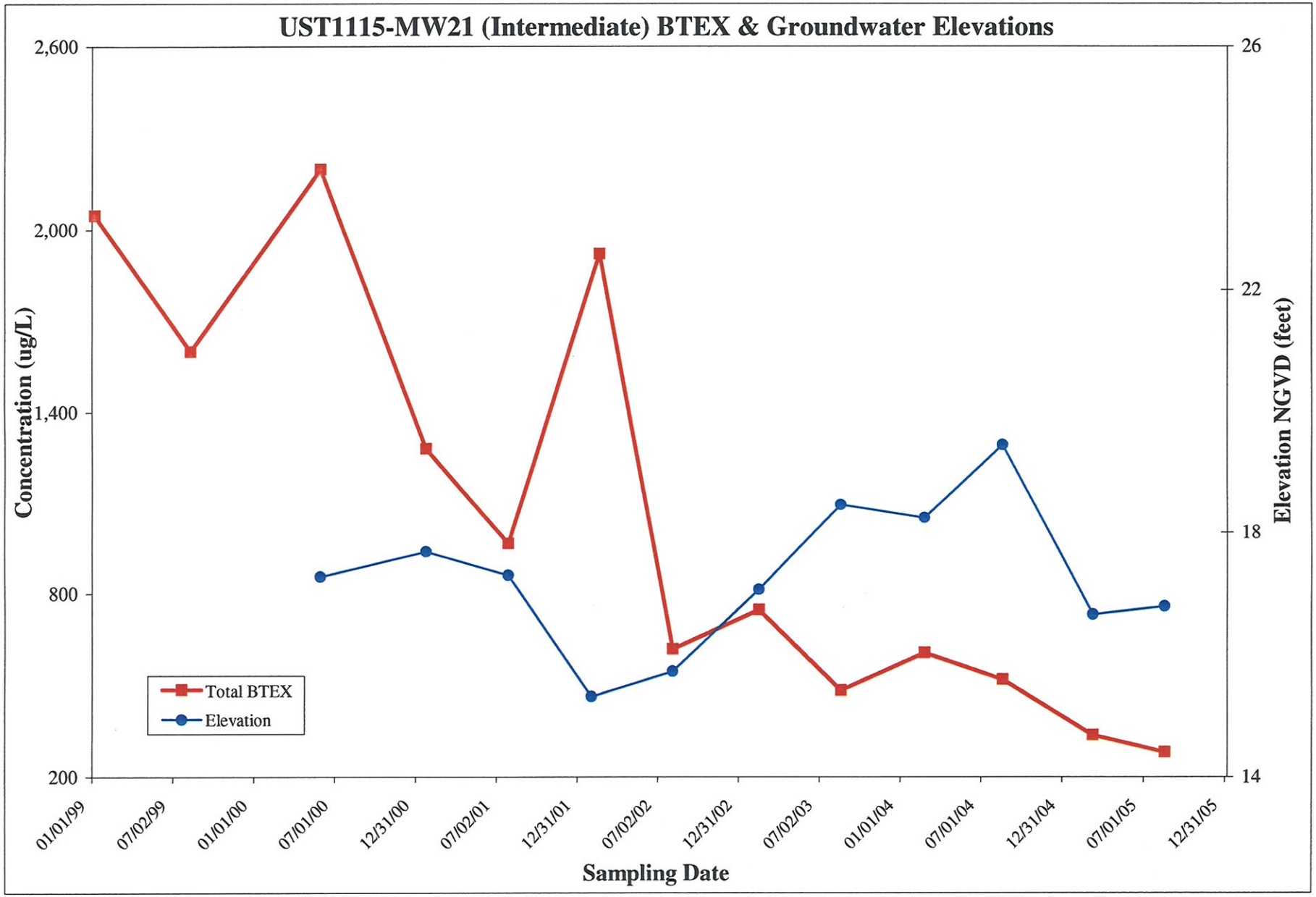

UST1115-MW04 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
10,000
1,000
100
10
1
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

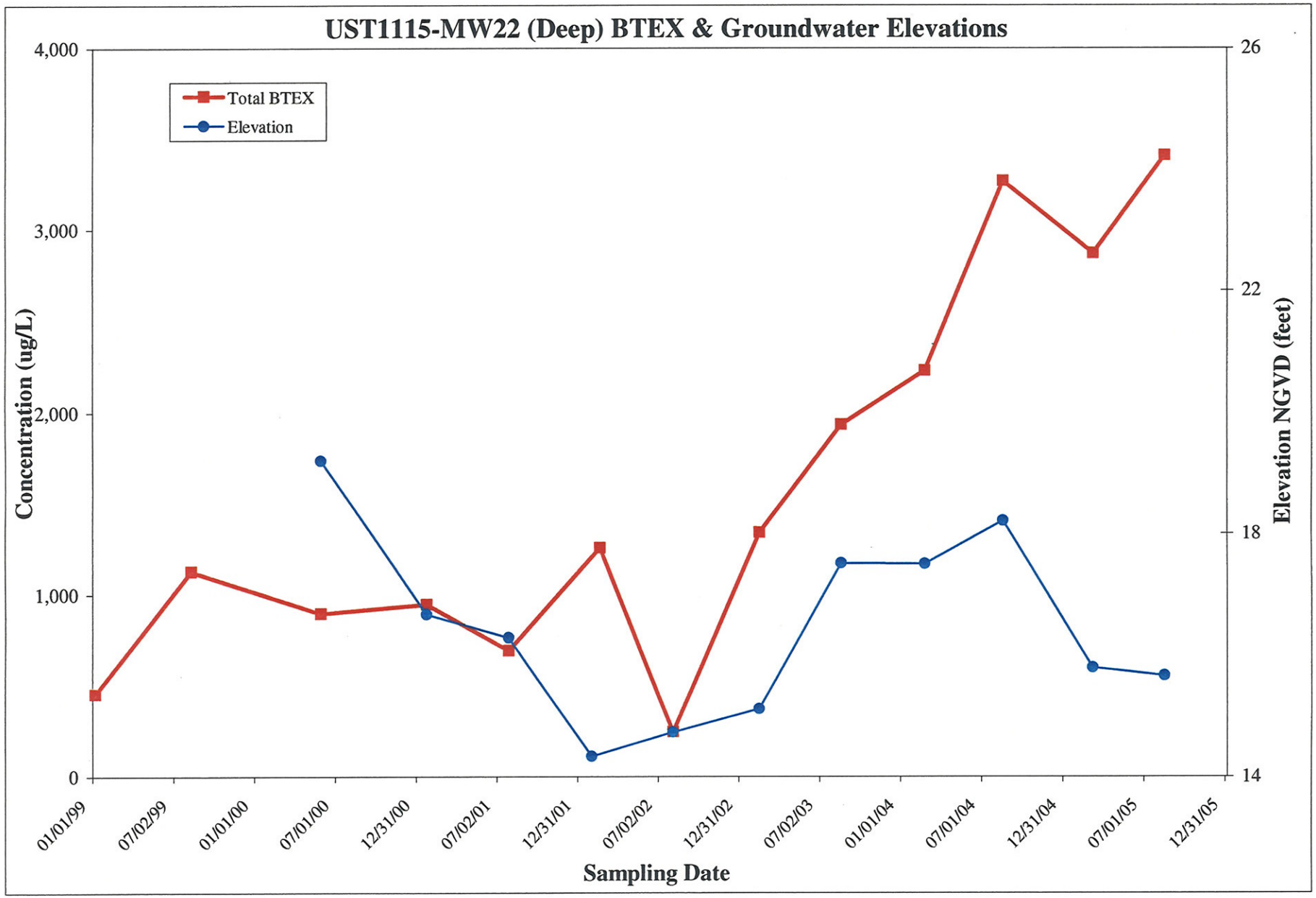

UST1115GT-MW01 (Shallow) BTEX & Groundwater Elevations
Total BTEX
Elevation
100,000
10,000
1,000
100
10
1
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

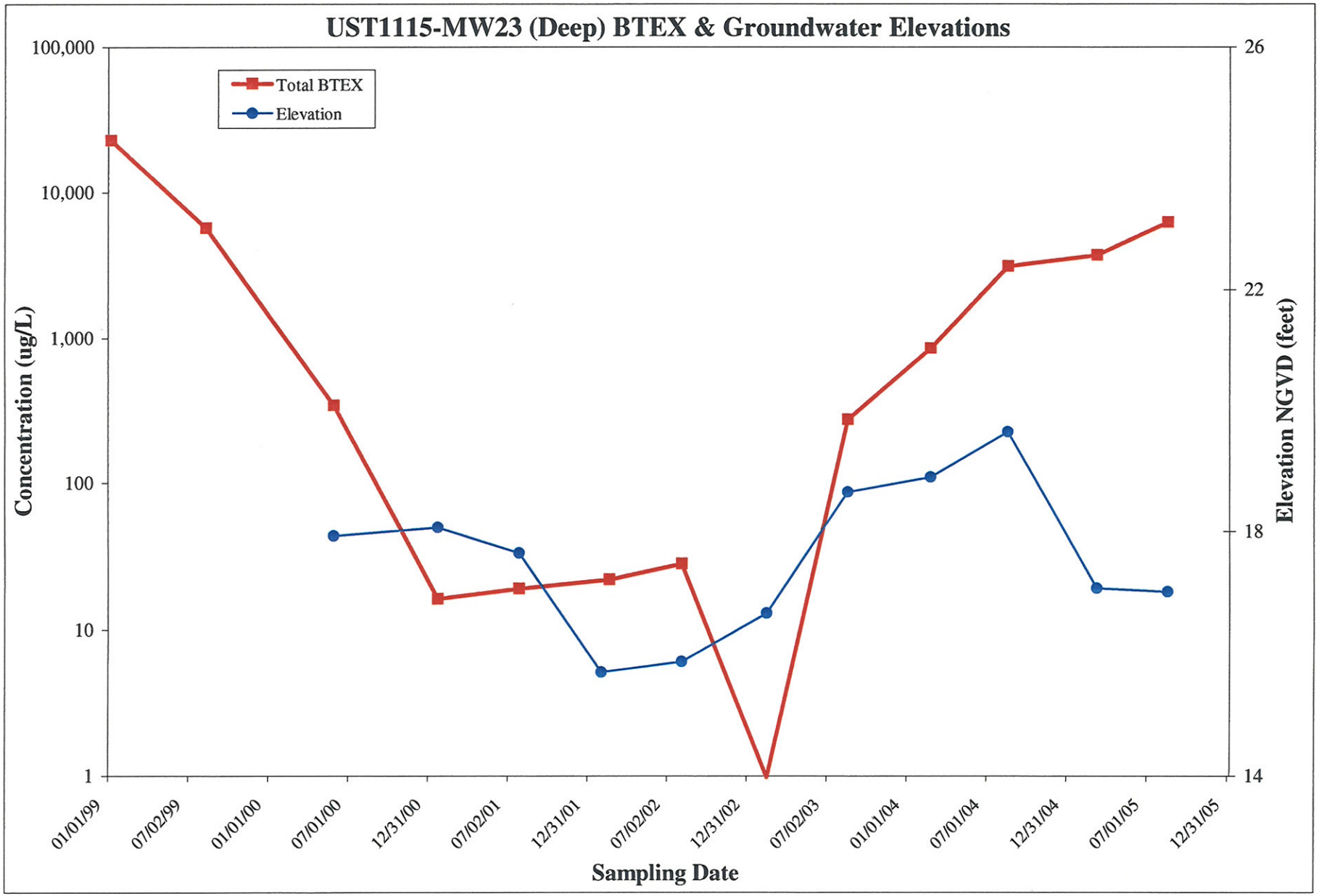

UST1115-MW13 (Intermediate) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
100,000
10,000
1,000
100
10
1
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

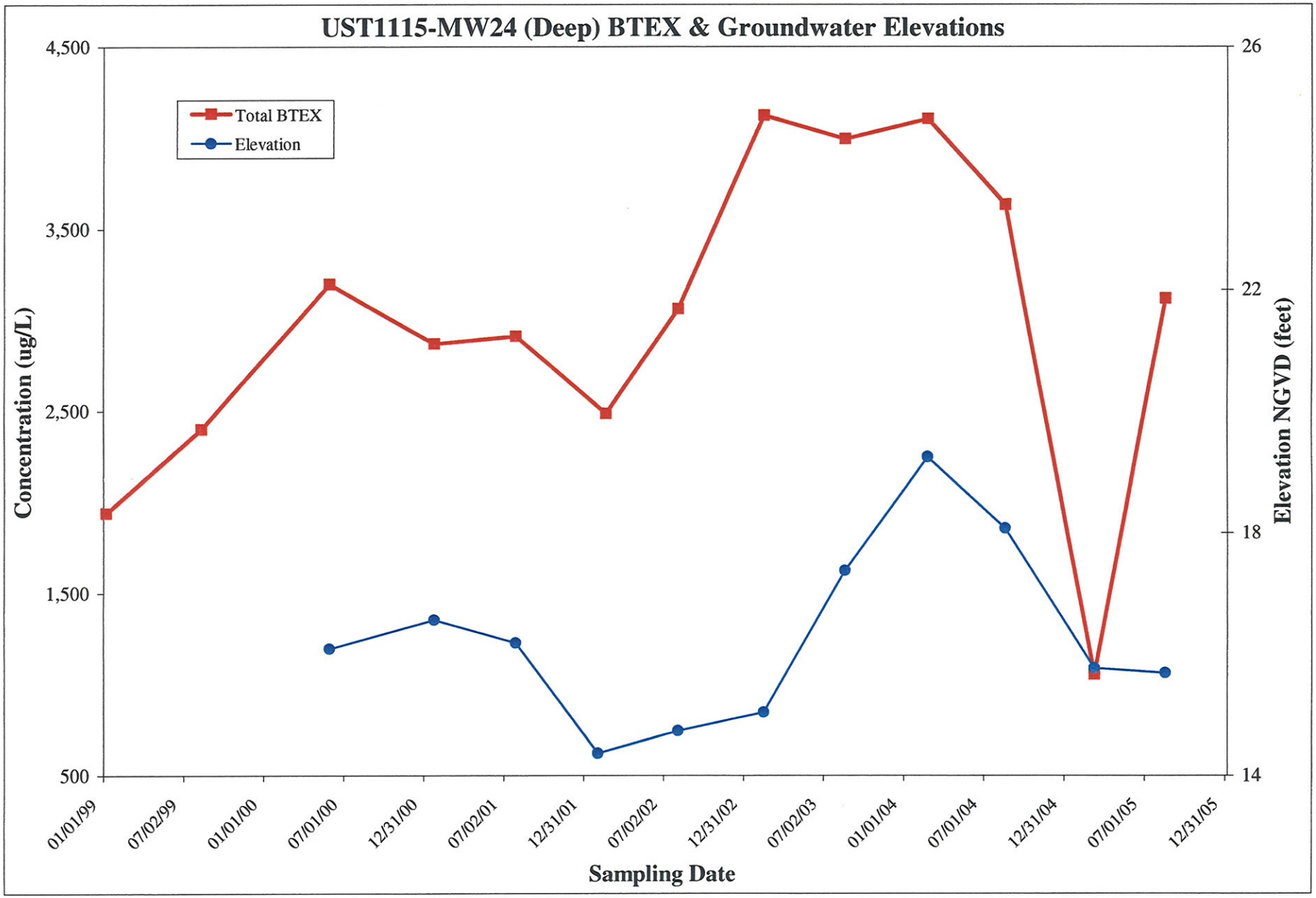

UST1115-MW17 (Intermediate) BTEX & Groundwater Elevations
12,000
9,000
6,000
3,000
0
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

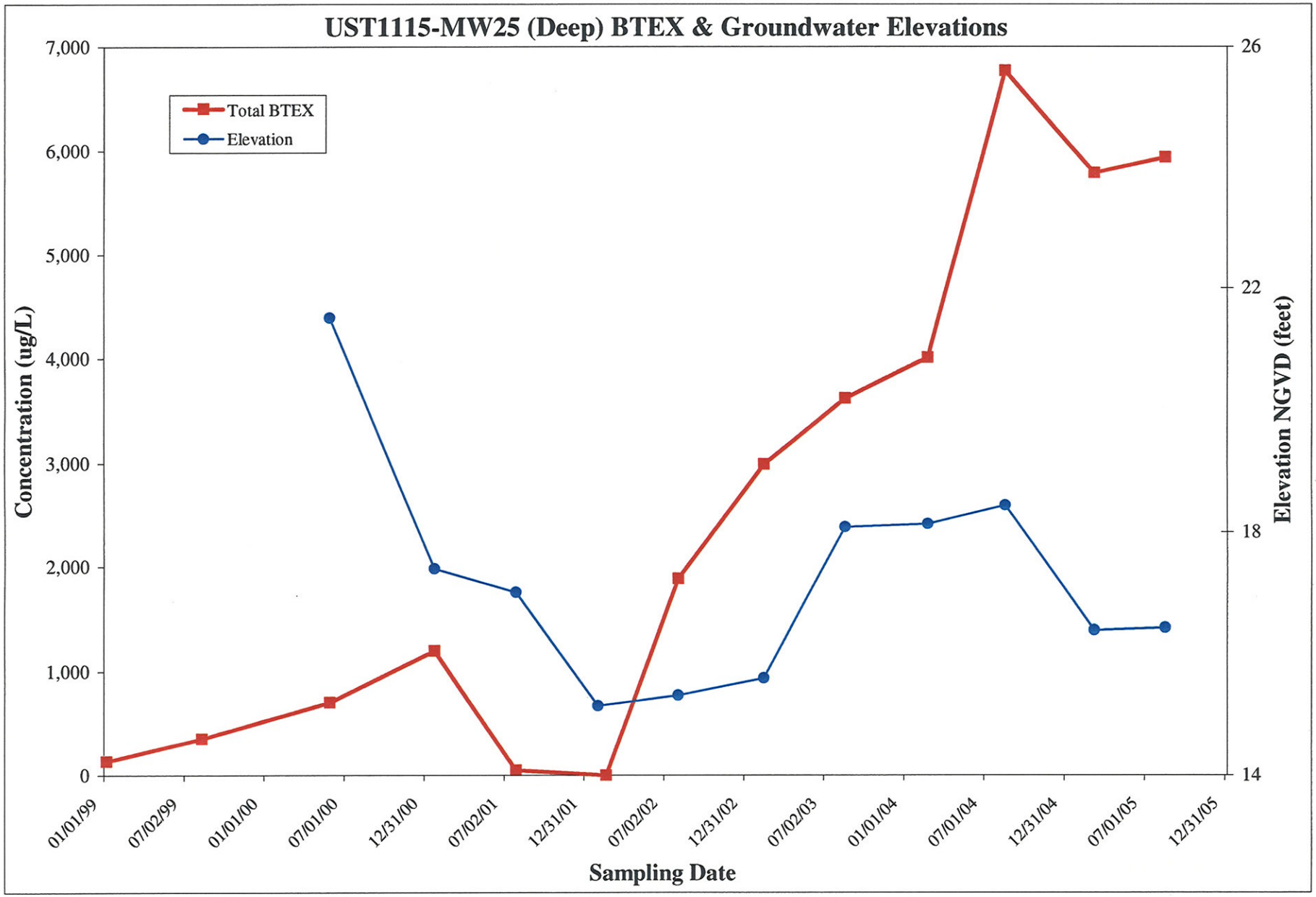

UST1115-MW18 (Intermediate) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
100,000
10,000
1,000
100
10
1
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

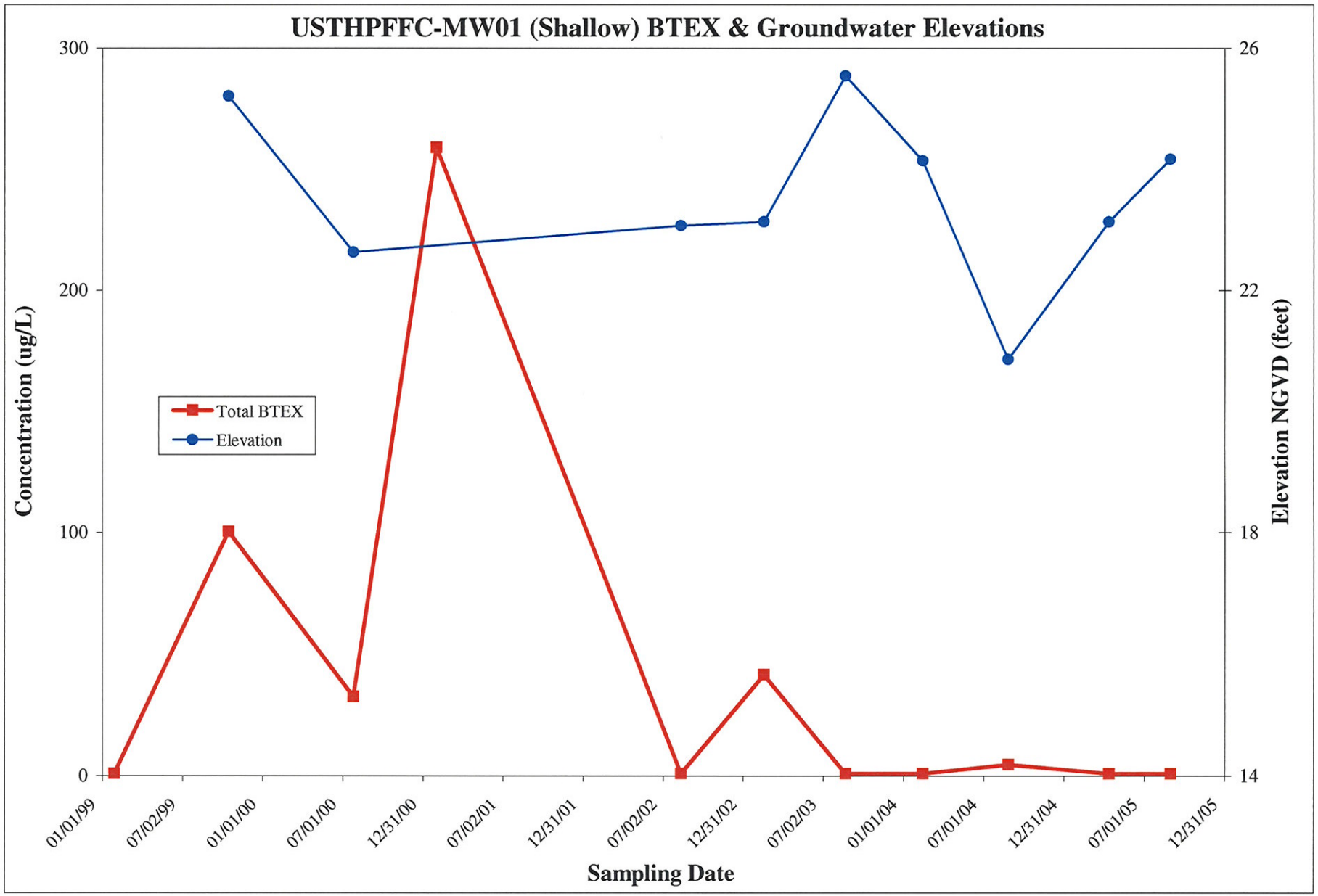

UST1115-MW21 (Intermediate) BTEX & Groundwater Elevations
2,600
2,000
1,400
800
200
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

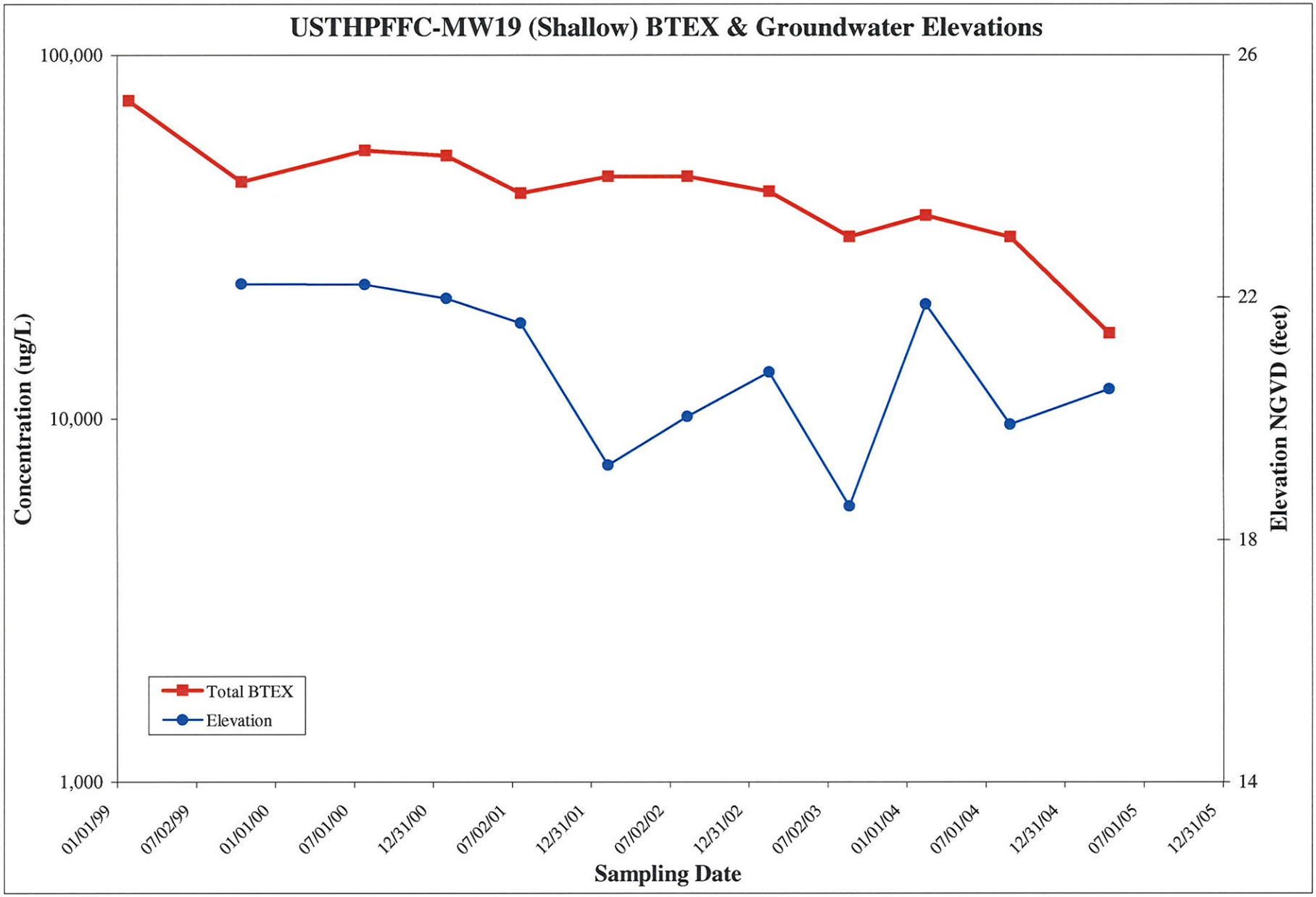

UST1115-MW22 (Deep) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
4,000
3,000
2,000
1,000
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05

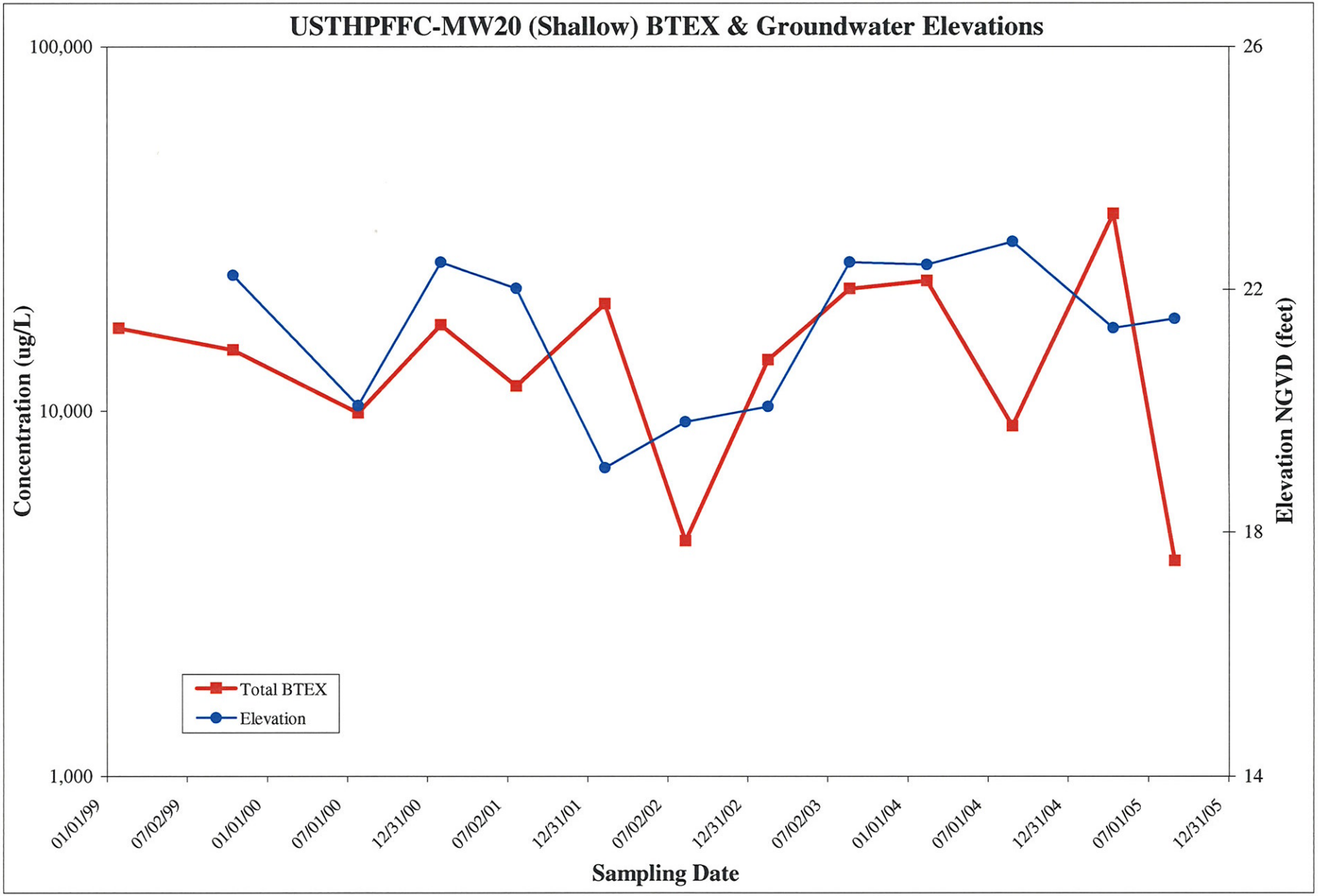

UST1115-MW23 (Deep) BTEX & Groundwater Elevations
Total BTEX
Elevation
100,000
10,000
1,000
100
10
1
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

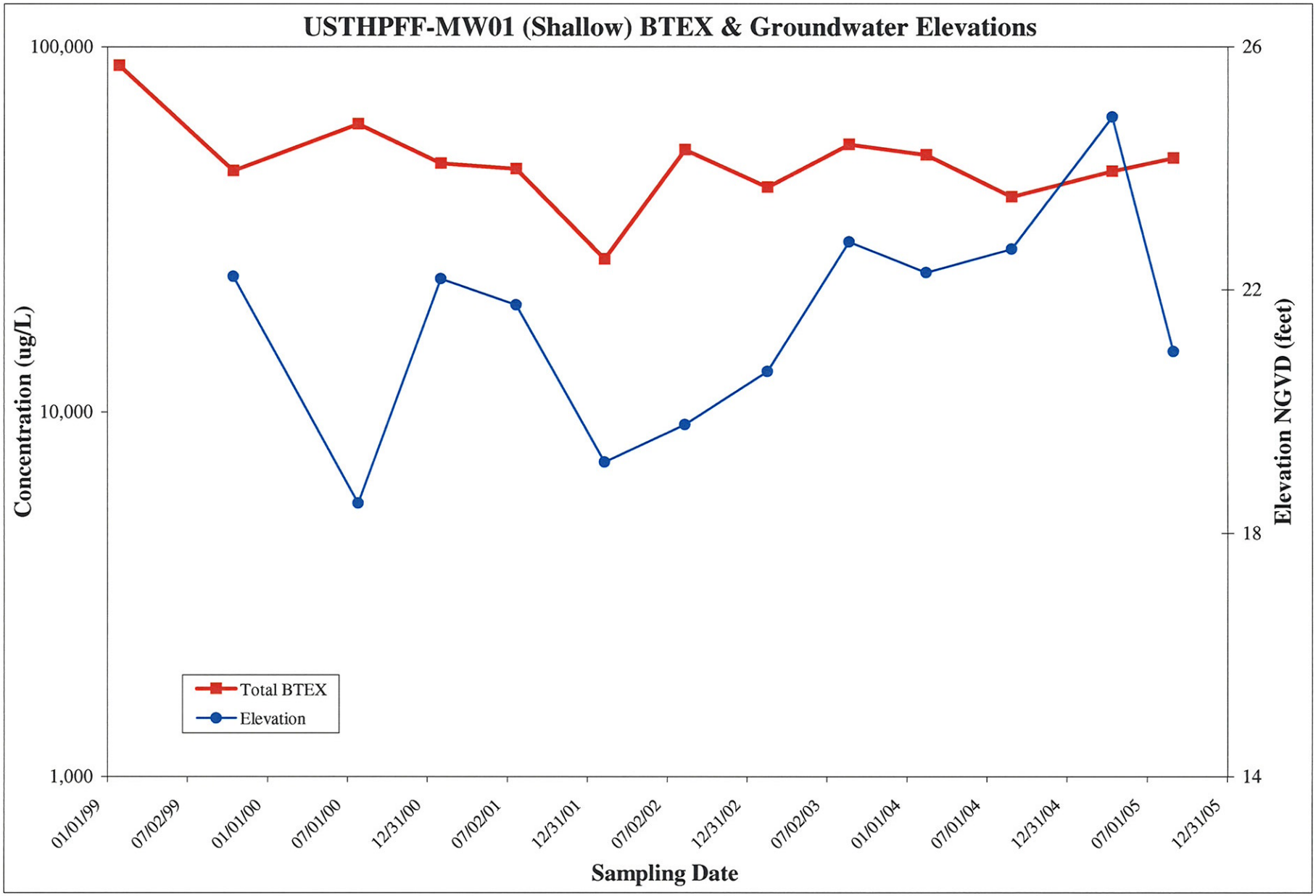

UST1115-MW24 (Deep) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
4,500
3,500
2,500
1,500
500
Elevation NGVD (feet)
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

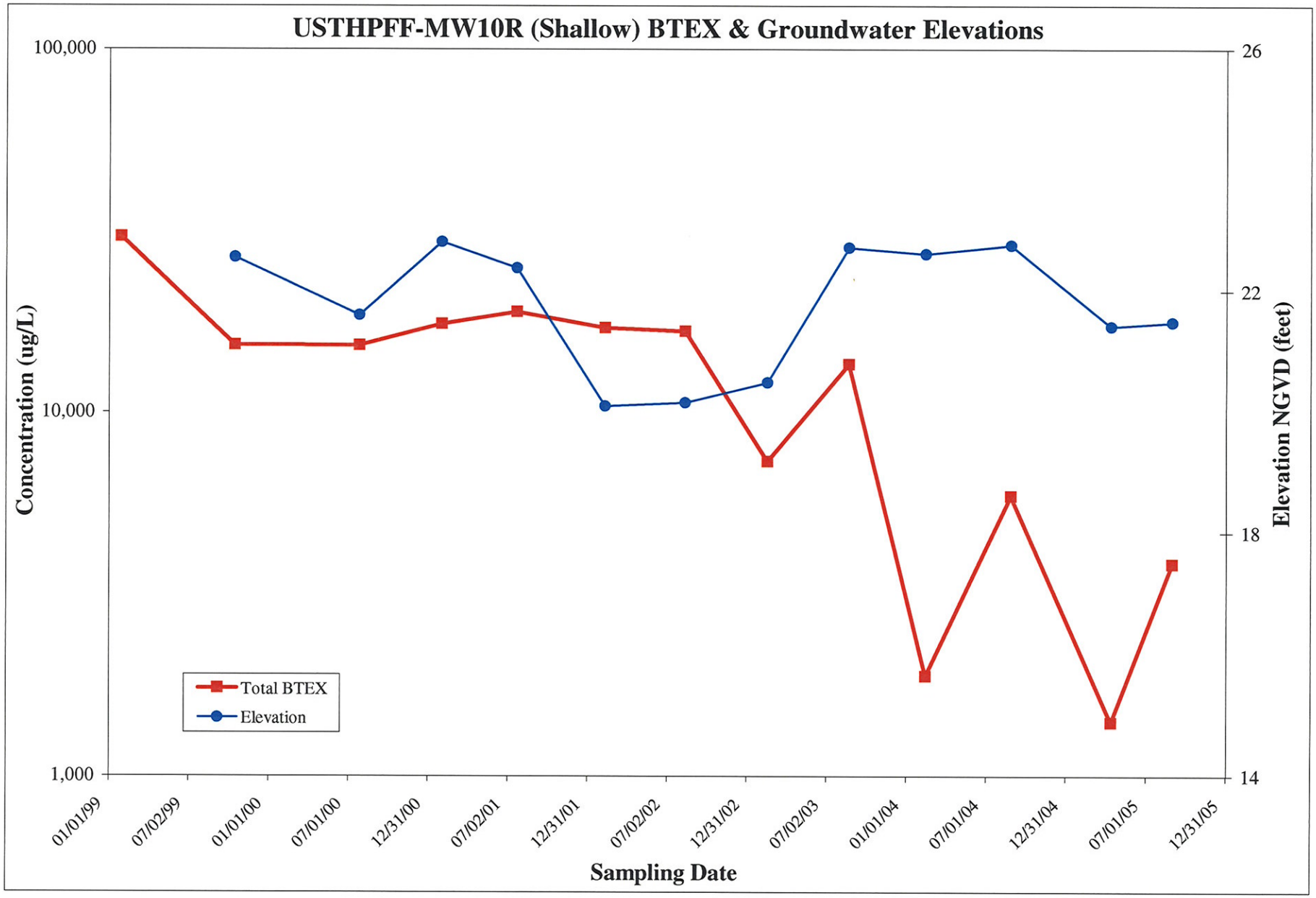

UST1115-MW25 (Deep) BTEX & Groundwater Elevations
Total BTEX
Elevation
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05

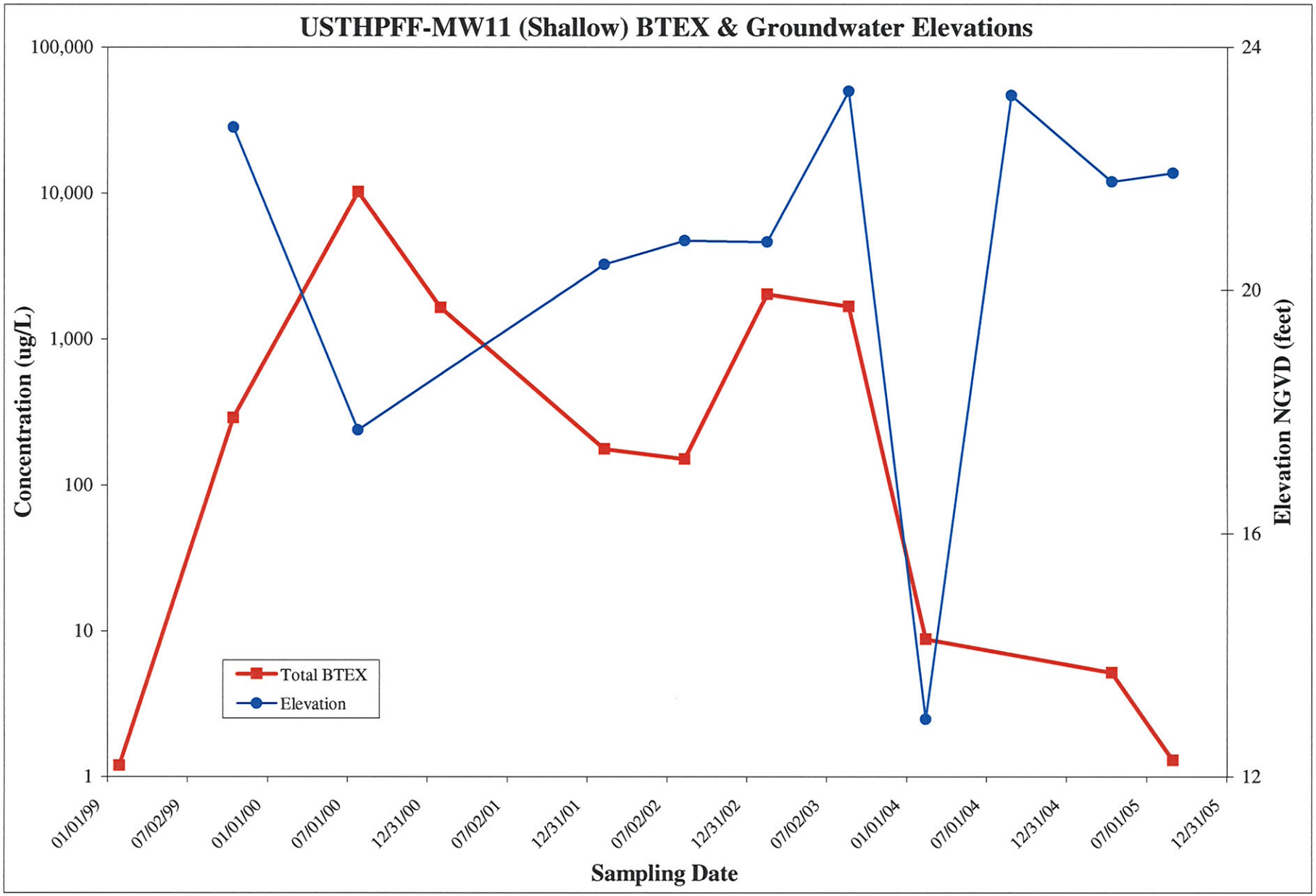

USTHPFFC-MW01 (Shallow) BTEX & Groundwater Elevations
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
Total BTEX
Elevation
300
200
100
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05


USTHPFFC-MW19 (Shallow) BTEX & Groundwater Elevations
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

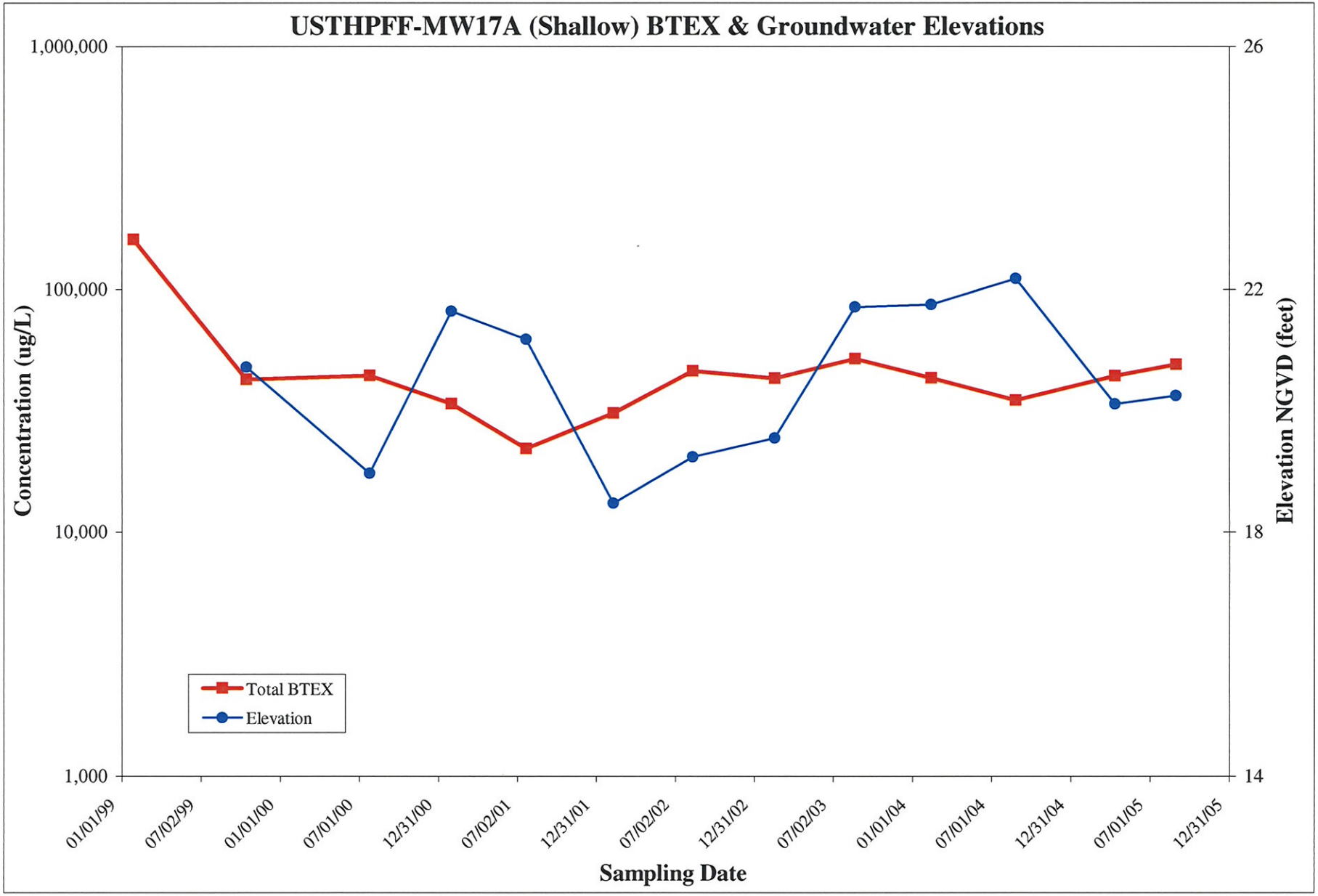

USTHPFFC-MW20 (Shallow) BTEX & Groundwater Elevations
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

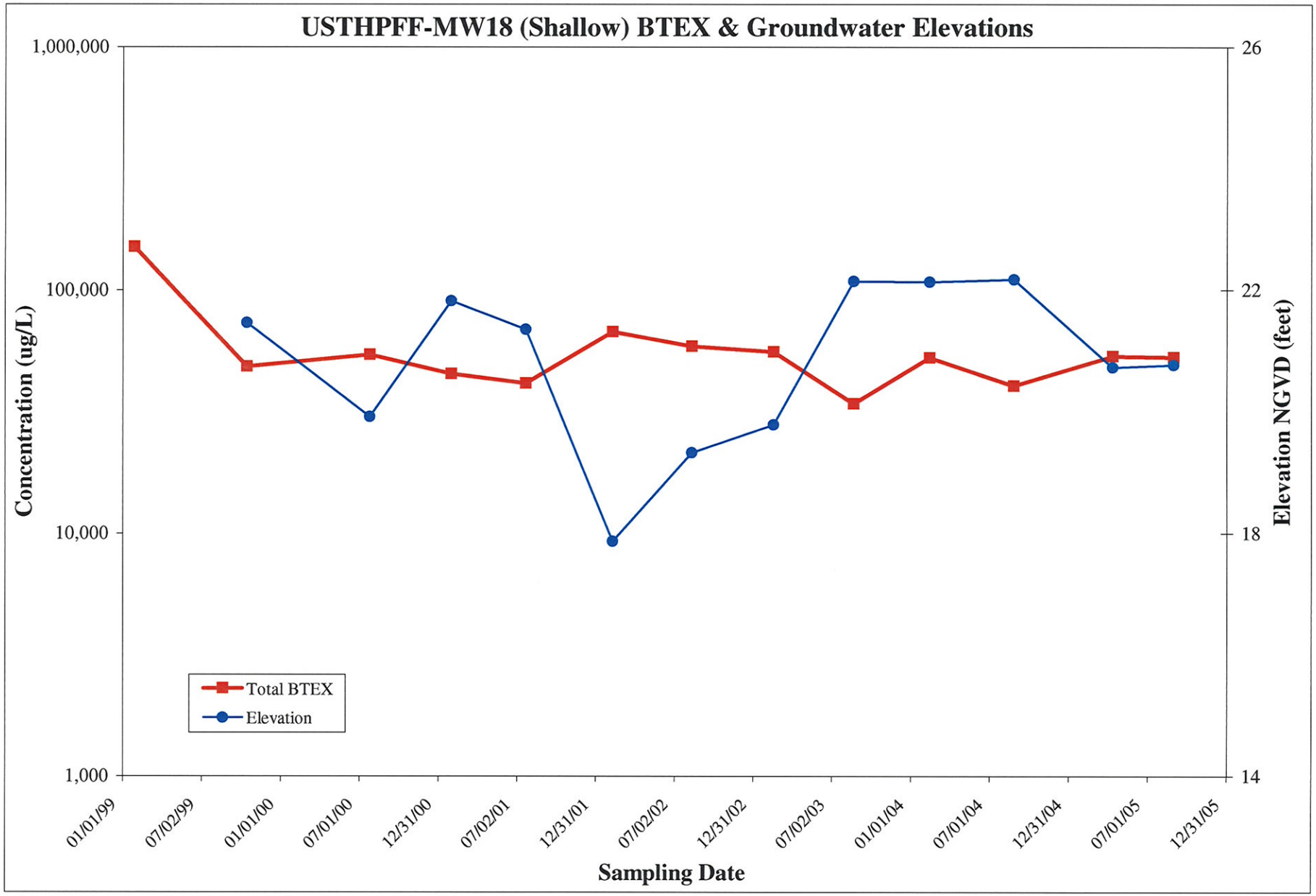

USTHPFF-MW01 (Shallow) BTEX & Groundwater Elevations
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

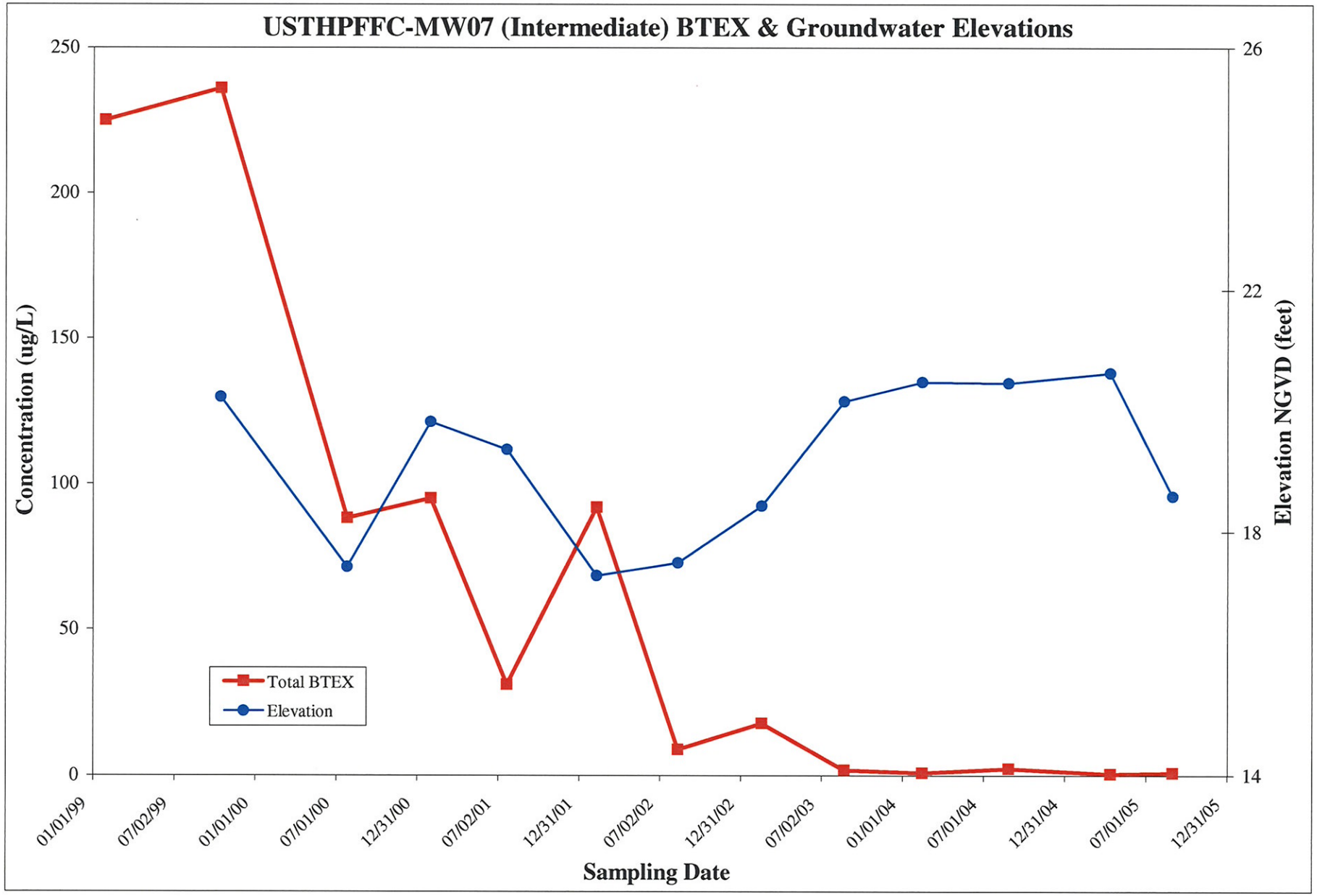

USTHPFF-MW10R (Shallow) BTEX & Groundwater Elevations
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date

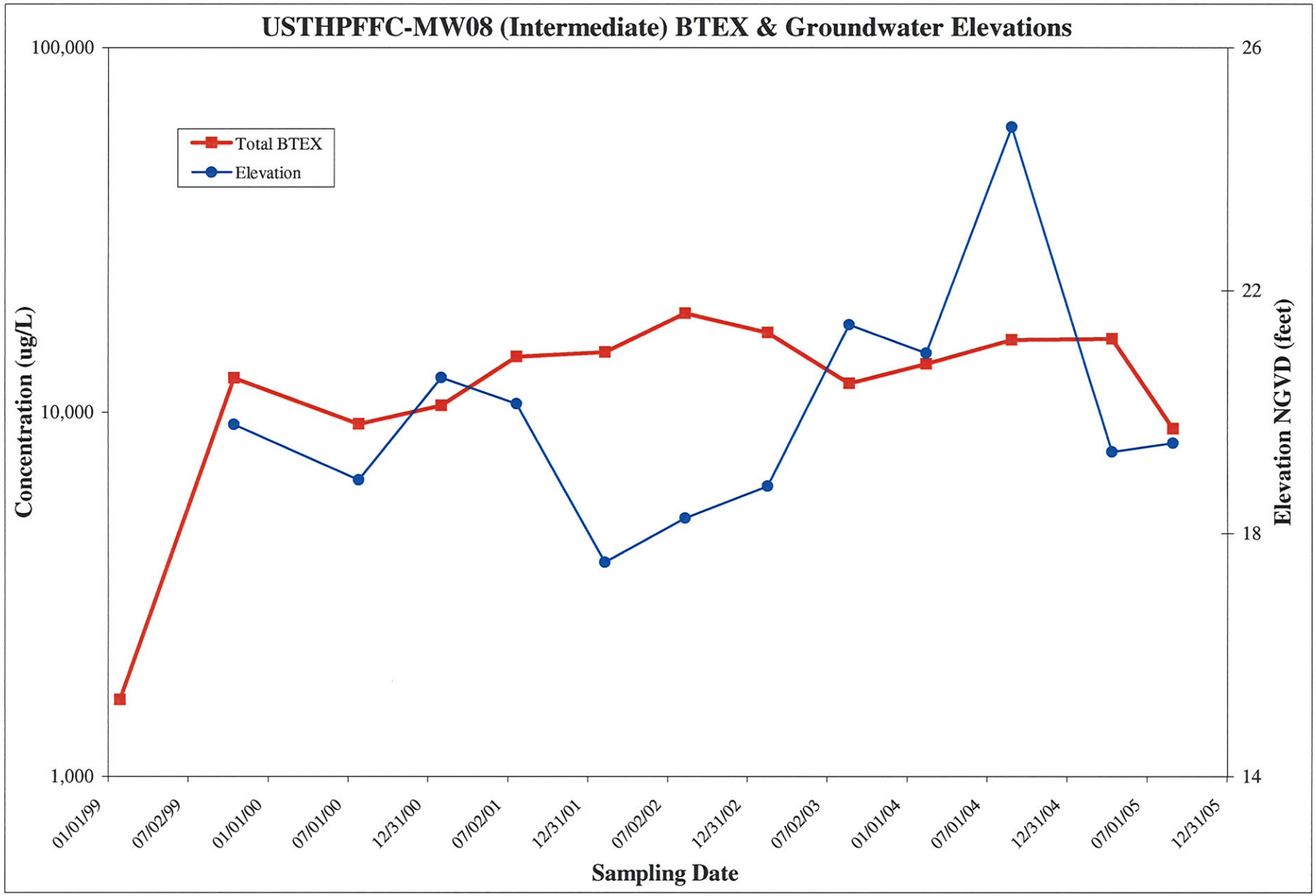


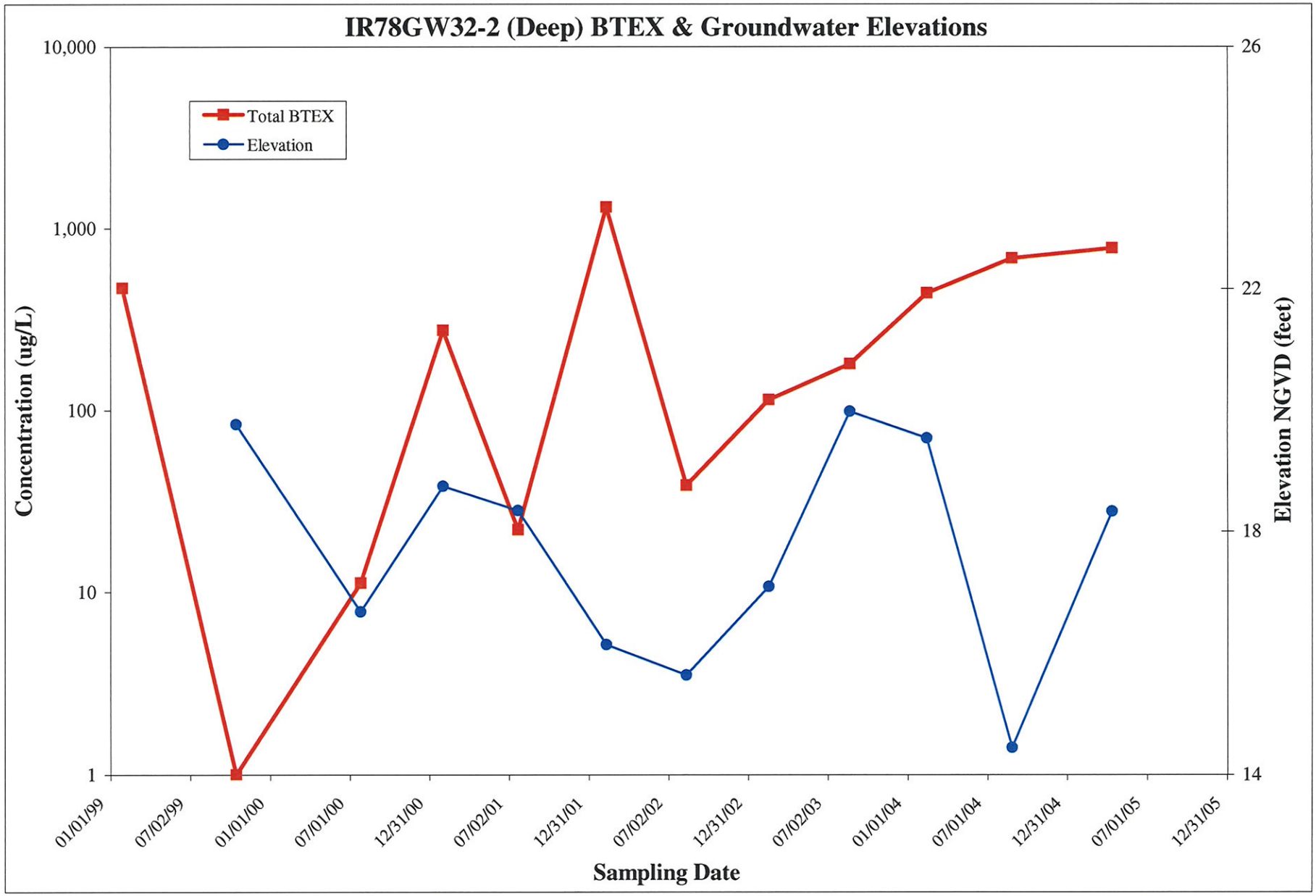
MW-11 not sampled in August 2004

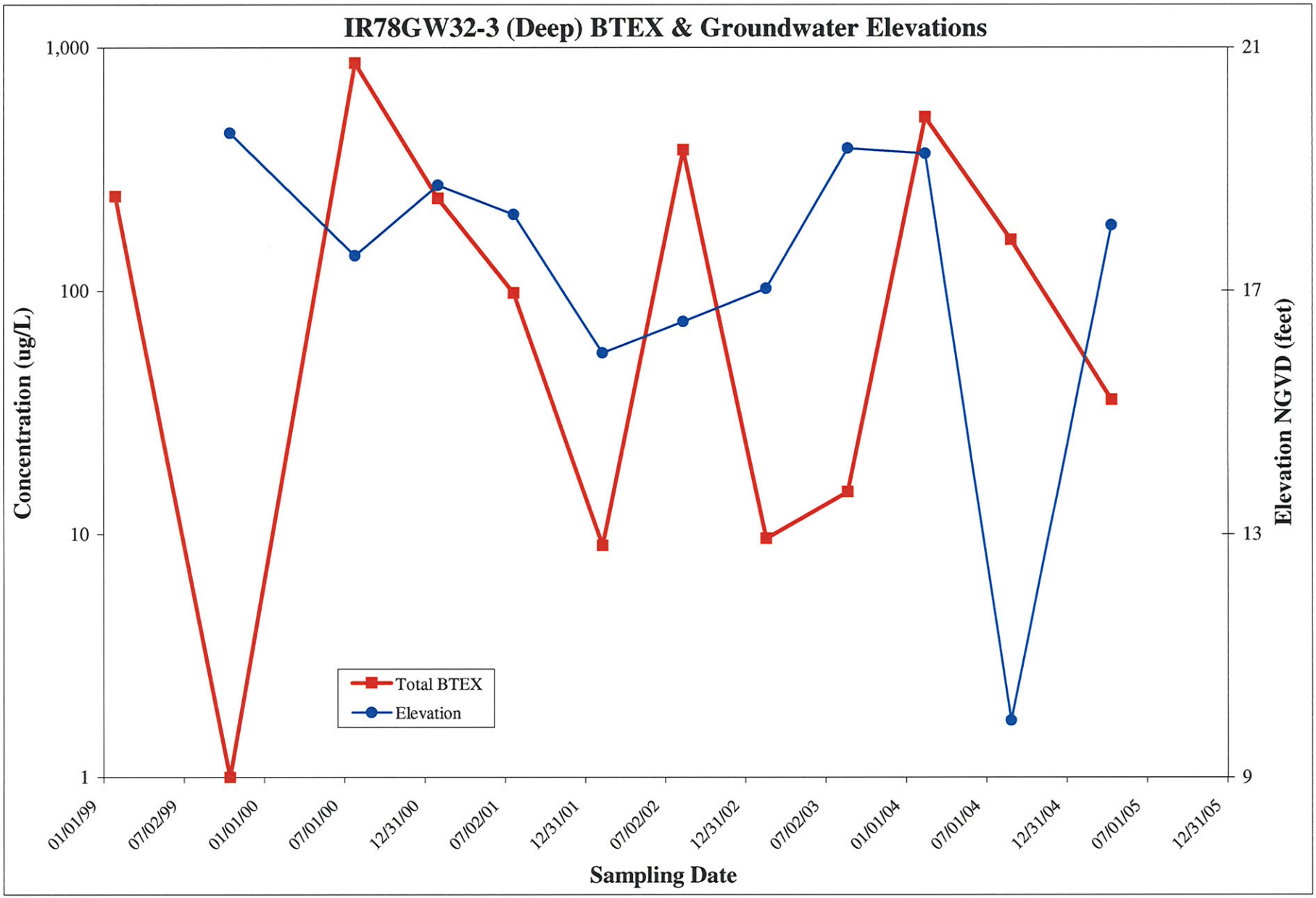

USTHPFF-MW17A (Shallow) BTEX & Groundwater Elevations
1,000,000
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date


USTHPFF-MW18 (Shallow) BTEX & Groundwater Elevations
1,000,000
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date


USTHPFFC-MW07 (Intermediate) BTEX & Groundwater Elevations
Concentration (ug/L)
Elevation NGVD (feet)
Sampling Date
Total BTEX
Elevation
250
200
150
100
50
0
26
22
18
14
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05


USTHPFFC-MW08 (Intermediate) BTEX & Groundwater Elevations
100,000
10,000
1,000
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date


IR78GW32-2 (Deep) BTEX & Groundwater Elevations
Total BTEX
Elevation
10,000
1,000
100
10
1
Concentration (ug/L)
26
22
18
14
Elevation NGVD (feet)
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date


IR78GW32-3 (Deep) BTEX & Groundwater Elevations
1,000
100
10
1
21
17
13
9
Concentration (ug/L)
Elevation NGVD (feet)
Total BTEX
Elevation
01/01/99
07/02/99
01/01/00
07/01/00
12/31/00
07/02/01
12/31/01
07/02/02
12/31/02
07/02/03
01/01/04
07/01/04
12/31/04
07/01/05
12/31/05
Sampling Date