



FINAL
2008-2009 ANNUAL MONITORING REPORT

BUILDING 645
MARINE CORP BASE, CAMP LEJUENE
ONSLOW COUNTY, NORTH CAROLINA

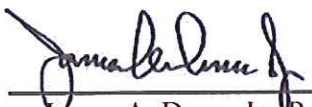
Contract No. N62470-02-D-3260

Prepared for:
DEPARTMENT OF THE NAVY
Naval Facilities Engineering Command, Mid-Atlantic
Marine Corps North Carolina IPT
Environmental Business Line
9742 Maryland Avenue
Norfolk, VA 23511-3095

Prepared by:
SHAW ENVIRONMENTAL, INC.
500 East Main Street, Suite 1630
Norfolk, Virginia 23510




Mark Pisarcik
Project Manager


James A. Dunn, Jr., P.E.
Program Manager

Task Order 81
Shaw Project No. 125709
June 2009

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1-1
1.1	CAMP LEJEUNE SITE LOCATION AND DESCRIPTION.....	1-1
2.0	CONTAMINATION INVESTIGATION HISTORY.....	2-1
3.0	AS/SVE REMEDIATION SYSTEM OPERATION AND MAINTENANCE.....	3-1
4.0	GROUNDWATER MONITORING AND SAMPLING RESULTS	4-2
4.1	WELL GAUGING.....	4-2
4.1.1	October 2008 Gauging Event	4-2
4.1.2	February 2009 Gauging Event	4-2
4.2	GROUNDWATER SAMPLING AND ANALYTICAL RESULTS	4-3
4.2.1	October 2008 Groundwater Sampling And Analytical Results	4-3
4.2.2	March 2009 Groundwater Sampling And Analytical Results.....	4-4
4.3	HISTORICAL DATA SYNOPSIS.....	4-4
5.0	RECEPTOR SURVEY.....	5-1
6.0	CONCLUSIONS AND RECOMMENDATIONS.....	6-1
7.0	REFERENCES	7-1

TABLES

Table 3.1: Cumulative Mass of Volatile Hydrocarbons Recovery Data and Graph

Table 4.1: Groundwater Elevations

Table 4.2: Field Data Summary, October 2008 / March 2009, Shallow Well

Table 4.3: Analytical Data Summary, October 2008 / March 2009, Shallow Well

Table 4.4: Field Data Summary, October 2008 / March 2009, Deep Well

Table 4.5: Analytical Data Summary, October 2008 / March 2009, Deep Well

FIGURES

Figure 1	Site Location Map
Figure 2	Site Map and Monitoring Well Locations
Figure 3	Shallow Well Groundwater Elevations – October 2008
Figure 4	Deep Well Groundwater Elevations – October 2008
Figure 5	Shallow Well Groundwater Elevations – March 2009
Figure 6	Deep Well Groundwater Elevations – March 2009
Figure 7	Site Map With October 2008 and March 2009 Groundwater Results – EPA Method 601 Shallow Conditions
Figure 8	Site Map With October 2008 and March 2009 Groundwater Results – EPA Method 601 Deep Conditions
Figure 9	Site Map With October 2008 and March 2009 Groundwater Results – EPA Method 602 Shallow Conditions
Figure 10	Site Map With October 2008 and March 2009 Groundwater Results – EPA Method 602 Deep Conditions

APPENDICES

Appendix A	Historical Data
Appendix B	Laboratory Reports And Chain Of Custody Documentation From 2008-2009 Sampling Events
Appendix C	Field Data

ACRONYMS AND ABBREVIATIONS

AMR	Annual Monitoring Report
AS	Air Sparge
ASA	Additional Site Assessment
AST	Aboveground Storage Tank
bls	Below Land Surface
CAP	Corrective Action Plan
CATLIN	CATLIN Engineers and Scientists
EEI	Engineering and Environment, Inc.
EPA	Environmental Protection Agency
J.A. Jones	J.A. Jones Environmental Services, Inc.
MCB	Marine Corps Base
µg/L	Micrograms per Liter
MTBE	Methyl-tert butyl ether
NCDENR	North Carolina Department of Environment and Natural Resources
NCGWQS	North Carolina Groundwater Quality Standards
PID	Photo Ionization Detector
QC	Quality Control
RAO	Remedial Action Optimization
RCAP	Revised Corrective Action Plan
Shaw	Shaw Environmental, Inc.
Sovereign	Sovereign Consulting, Inc.
SVE	Soil Vapor Extraction
SVOCs	Semi Volatile Organic Compounds
TOC	top of casing
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

The purpose of this report is to summarize the 2008 – 2009 groundwater gauging and sampling events at the Building 645 site aboard MCB Camp Lejeune, North Carolina. This data was collected in October 2008 and March 2009. Analyses run included EPA Method 601, and Method 602 plus Xylenes. Results of Shaw's 2008-2009 gauging and sampling events are presented in the following sections of this report.

1.1 CAMP LEJEUNE SITE LOCATION AND DESCRIPTION

Building 645 is located close to the main gate of Camp Lejeune on Brewster Boulevard near its intersection with Holcomb Boulevard. The site is located across the street from Russell Elementary School. Building 645 served as a pump house for water supply well HP645, which was part of the Holcomb Boulevard water collection system. The 110-gallon AST was located adjacent to Building 645, and it supplied gasoline to the generator that powered the HP645 well pump. Well HP645 was taken off line and rendered inactive in 1985 due to petroleum contamination of the well water. The well was permanently abandoned in 1995, and both Building 645 and the AST were subsequently removed from the site.

Groundwater contamination was suspected when raw water well HP645 displayed petroleum contamination during a routine sampling of the well water. Subsequent site assessments were conducted from 1993 to 1996, which found petroleum contamination in both the shallow and deep aquifers at the site. A Corrective Action Plan (CAP) was completed by Richard Catlin and Associates, Inc. (now known as CATLIN Engineers and Scientists [CATLIN]) in 1996. The CAP recommended installation of an air sparge/soil vapor extraction (AS/SVE) remediation system to address groundwater contamination at the site. The system was installed in 1998 and has been in operation since that time.

2.0 CONTAMINATION INVESTIGATION HISTORY

A Three Well Site check of the site was performed in 1993 by R.E. Wright Associates, Inc. Groundwater samples from the three wells and soil samples in the vicinity of the former AST contained evidence of petroleum impact exceeding North Carolina state standards. CATLIN conducted a comprehensive site assessment in 1995, as well as an assessment addendum in 1996 to delineate the extent of petroleum contamination at the site. Soil contaminants were not detected; however, groundwater contamination was identified in both the shallow and deep portions of the groundwater aquifer.

A subsequent CAP was prepared for the site in 1996 that proposed the installation of an air AS/SVE system. The treatment system was constructed by J.A. Jones and began remediation activities in September 1998. The groundwater treatment system has operated continuously since 1998, with the exception of occasional maintenance repairs and groundwater sampling events.

CATLIN conducted an optimization study at the site in 2004 with follow-on assessment work completed in 2006. The 2004 optimization report concluded that the remediation system has been effective in reducing petroleum constituent concentrations in the upper portion of the contaminant plume. The report recommended further refinement of the contaminant plume boundary, however, in both the horizontal and vertical directions. As a result, CATLIN completed the August 2006 Remedial Action Optimization and Revised Corrective Action Plan (RCAP) Addendum. Horizontal and vertical boundaries of the contaminant plume were identified during the investigation. Recommendations from the addendum included discontinuing the operation of the western portion of the remediation system, monitoring the deep zone monitoring wells quarterly, conducting an annual sampling event of all site monitoring wells, deactivation of water supply wells HP-644 and HP-646, and the reevaluation of site conditions and applicable standards with the appropriate modification of sampling and remedial efforts. Following the completion of a Soil and Groundwater Investigation Summary Report (Sovereign, October 2007) which presented data indicating that the dissolved contaminant plume had migrated beyond the monitoring well network to the northeast and southeast, CATLIN conducted an Additional Site Assessment (ASA) in June 2008. This ASA was completed to provide data necessary to delineate the boundaries of the dissolved contaminant plume. Results of this investigation revealed that the contaminated plume has been delineated horizontally and vertically and that there has been some downward migration of the contaminant plume into the Deep Zone. In September 2008, CATLIN submitted a CAP Supplement to propose various remedial approaches to address the presence of dissolved phase contaminants within the Deep Zone.

Various remediation contractors have maintained and operated the site since 1998 including J.A. Jones Environmental Services, Inc. (J.A. Jones), Engineering and Environment, Inc. (EEI), Sovereign Consulting Inc. (Sovereign), and Shaw Environmental, Inc. (Shaw). During this monitoring period (2008-2009), Shaw operated and maintained the remediation system and conducted monitoring well gauging and sampling of site wells. Shaw gauged and sampled monitoring wells in October 2008 and March 2009. Monitoring wells included in the gauging and sampling events were MW01 through MW32. Monitoring wells MW01 through MW32 were gauged in October 2008 and March 2009. Samples were analyzed for Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compounds (SVOCs) via Environmental Protection Agency (EPA) Method 601, and Method 602 + Xylenes.

Monitoring and maintenance of the groundwater treatment system at the Building 645 site has continued from installation in 1998 to the present. Sovereign recommended, during the 2007-2008 AMR, that continued operations of the remediation system were warranted. Semi-annual gauging and sampling of the site monitoring wells was also recommended from 17 monitoring wells, including UST645-MW03, UST645-MW12, UST645-MW16, UST645-MW18, UST645-MW21, and UST645-MW26 through UST645-MW37. This report outlines and describes such activities as performed by Shaw for the 2008 – 2009 reporting period. Within the monitoring period of September 2008 through April 2009, the system has recovered a cumulative mass of 408.4 pounds of hydrocarbons. Hydrocarbon vapor recovery data and graph is provided in **Table 3.1**.

3.0 AS/SVE REMEDIATION SYSTEM OPERATION AND MAINTENANCE

The Building 645 remediation system includes fourteen vertical AS wells, horizontal SVE lines (SVE1 through SVW4), and soil vapor collection vent borings. Six of the fourteen vertical AS wells were installed to a depth of 80 feet below land surface (bls), and the remaining eight AS wells were advanced to a depth of 50 feet bls. The vapor collection vents were installed from 4.5 to 20 feet bls below the SVE lines. The system has been operational since it was installed by J.A. Jones in 1998, with the exception of being shut down from June through November 2007 per the recommendations made in the 2006-2007 Annual Monitoring Report (AMR) prepared by Sovereign. **Figure 2** shows the current system layout and monitoring well locations.

The system generally operated continuously except during equipment servicing/repair, power outages, and high level water alarms. The remediation system was temporarily deactivated prior to each groundwater gauging and sampling event and then re-started following field activities. There were no non-routine service calls made for the system during this monitoring period.

System monitoring and maintenance was performed regularly, with site visits conducted at a minimum of three times per week. Instrument readings conducted during the site visits included AS flow rates, AS/SVE pressures/vacuums, temperatures, tank liquid levels, electricity usage, and motor run times. Servicing (oil changes, belt re-tensioning or replacement, filter changes, etc.) was conducted as per manufacturer's instructions or as needed upon system inspection. Emptying of the polyethylene holding tank was also conducted as needed.

Photoionization detector (PID) readings were recorded weekly during the monitoring period (September 2008 -April 2009). Vapor velocity readings, vapor temperature, and vapor vacuum/pressure were also documented at the time the PID readings were recorded.

Monitoring well purge water, development water, and equipment decontamination water generated during field events were contained in a portable holding tank. Water that accumulated in the SVE system polyethylene hold tank was removed and transported in the portable holding tank and processed through a groundwater treatment system located at Lot 203 on MCB Camp Lejeune.

4.0 GROUNDWATER MONITORING AND SAMPLING RESULTS

4.1 WELL GAUGING

Shaw gauged monitoring wells MW01 through MW32 at the Building 645 in October 2008 and March 2009. Activities were conducted in accordance with North Carolina Department of Environment and Natural Resources (NCDENR) guidance. Gauging data is summarized in **Table 4.1**. Wells were gauged using an interface probe to measure the depth to water and depth to product (if present).

4.1.1 October 2008 Gauging Event

Groundwater measurements were taken in October 2008 from 32 monitoring wells (UST645-MW01 through UST645-MW32). **Figure 3** presents the groundwater elevation contour map for October 2008 from the Type II (shallow) monitoring wells. Groundwater elevations for the shallow wells ranged from 8.15 feet National Geodetic Vertical Datum (NGVD) in monitoring well MW-07 to 15.97 feet NGVD in monitoring well MW-4. The shallow groundwater flows from the northeast to the southwest at a horizontal hydraulic gradient of 0.009 ft/ft from MW-05 to MW-19. No free phase product was detected in any of the monitoring wells during the October 2008 gauging event. **Figure 4** presents the groundwater elevation contour map for October 2008 from the Type III (deep) monitoring wells. Groundwater elevations for the deep wells ranged from 8.46 feet NGVD in monitoring well MW-29 to 12.08 feet NGVD in monitoring well MW-15. The deep groundwater flows from the northeast to the southwest at a horizontal hydraulic gradient of 0.004 ft/ft from MW-28 to MW-16.

4.1.2 February 2009 Gauging Event

Groundwater measurements were taken in February 2009 from 32 monitoring wells (UST645-MW01 through UST645-MW32). **Figure 5** presents the groundwater elevation contour map for February 2009 from the Type II (shallow) monitoring wells. Groundwater elevations for the shallow wells ranged from 7.86 feet NGVD in monitoring well MW-25 to 18.59 feet NGVD in monitoring well MW-4. The shallow groundwater flows from the northeast to the southwest at a horizontal hydraulic gradient of 0.011 ft/ft from MW-05 to MW-19. No free phase product was detected in any of the monitoring wells during the February 2009 gauging event. **Figure 6** presents the groundwater elevation contour map for February 2009 from the Type III (deep) monitoring wells. Groundwater elevations for the deep wells ranged from 4.82 feet NGVD in monitoring well MW-13 to 15.93 feet NGVD in monitoring well MW-12. The deep groundwater flows from the northeast to the southwest at a horizontal hydraulic gradient of 0.002 ft/ft from MW-28 to MW-16.

4.2 GROUNDWATER SAMPLING AND ANALYTICAL RESULTS

Groundwater sampling was also conducted at the site. Activities were conducted in accordance with NCDENR guidance. Samples were collected during two sampling events – in October 2008 and March 2009. Monitoring wells MW01 through MW32 were sampled during both sampling events. One duplicate sample was collected during the October 2008 sampling event, and three duplicate samples were collected during the March 2009 sampling event. Prior to sampling, wells were purged a minimum of one casing volume of water using a low-flow sampling pump with connected polyethylene discharge tubing. Water quality indicator parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) were measured and recorded, until stabilized and the data is provided in **Tables 4.2** and **4.4**. If a well purged to dryness, the well was allowed to recharge before sampling. Samples were collected after purging using the laboratory-prepared sample bottles, placed on ice, and shipped under proper chain of custody to Accutest Laboratories Inc., located in Orlando, Florida (NC Certification Number 573). The lab tested the groundwater samples for VOCs and SVOCs using EPA Methods 601/602.

Field duplicate samples were collected and laboratory-prepared trip blanks were analyzed as Quality Control (QC) samples. The duplicate sample results were comparable to its counterpart. The data was validated by reviewing sample holding times, analytical times, analytical data, internal standards, calibrations, etc. The validation indicated that the data are usable for project purposes. Laboratory reports and chain of custody documentation are included in **Appendix B**, and field log sheets are included in **Appendix C**. A discussion of laboratory results is presented below by test method.

4.2.1 October 2008 Groundwater Sampling And Analytical Results

Groundwater sample collection and analysis was performed at 31 monitoring wells (UST645-MW01 through UST645-MW23 and UST645-MW25 through UST645-MW32) on October 14 through October 16, 2008 as recommended in the RCAP. Groundwater sample collection and analysis was not completed at monitoring well UST645-MW33 and UST645-MW34. The AS system was turned off one week before sampling began. The samples were analyzed for VOCs using EPA Method 601, and PAHs using EPA Method 602. Of the 32 monitoring wells sampled, the following five monitoring wells presented compounds in excess of NCGWQS:

- UST645-MW02 [Tetrachlorethene, 2.9 µg/L]
- UST645-MW18 [Benzene, 2.2 µg/L]
- UST645-MW26 [Benzene, 521 µg/L; Toluene, 3,770 µg/L; and total xylenes, 670 µg/L]
- UST645-MW29 [Benzene, 28.2 µg/L;]

- UST645-MW31 [Dibromochloromethane, 0.43J µg/L]

Groundwater field parameters and analytical results from the 31 monitoring wells for the October 2008 sampling event are presented in **Tables 4.2** through **Table 4.5**. The laboratory analytical reports are provided in **Appendix B**. **Figures 7** through **Figure 10** depict analytical results seperetate by Type II (shallow) and Type III (deep) monitoring wells.

4.2.2 March 2009 Groundwater Sampling And Analytical Results

Groundwater sample collection and analysis was performed at 31 monitoring wells (UST645-MW01, UST645-MW02, UST645-MW03, UST645-MW04, UST645-MW05, UST645-MW06, UST645-MW07, UST645-MW08, UST645-MW09, UST645-MW10, UST645-MW11, UST645-MW12, UST645-MW13, UST645-MW14, UST645-MW15, UST645-MW16, UST645-MW17, UST645-MW18, UST645-MW19, UST645-MW20, UST645-MW21, UST645-MW22, UST645-MW23, UST645-MW25, UST645-MW26, UST645-MW27, UST645-MW28, UST645-MW29, UST645-MW30, UST645-MW31, UST645-MW32) on October 14 through October 16, 2008 as recommended in the RCAP. Groundwater sample collection and analysis was not completed at monitoring well UST645-MW33 and UST645-MW34. The AS system was turned off one week before sampling began. The samples were analyzed for VOCs using EPA Method 601, PAHs using EPA Method 602. Of the 32 monitoring wells sampled, the following five monitoring wells presented compounds in excess of NCGWQS:

- UST645-MW18 [Benzene, 1.4 µg/L]
- UST645-MW26 [Benzene, 0.92J µg/L]
- UST645-MW27 [Benzene, 1030 µg/L; Dichloroethane, 5.7 µg/L; and Methyl Tert Butyl Ether, 710 µg/L]
- UST645-MW29 [Benzene, 4.6 µg/L;]
- UST645-MW31 [Dibromochloromethane, 1.7 µg/L]

Groundwater field parameters and analytical results from the 31 monitoring wells for the March 2009 sampling event are presented in **Tables 4.2** through **Table 4.5**. The laboratory analytical reports are provided in **Appendix B**. **Figures 7** through **Figure 10** depict analytical results seperetate by Type II (shallow) and Type III (deep) monitoring wells.

4.3 HISTORICAL DATA SYNOPSIS

In the following tables below, maximum contaminant concentrations detected at the site are compared over time for several compounds. An overall decrease in contaminant concentrations is observed in the Type II (shallow) well data; however, concentrations in the deeper zones are noncompliant with the exception of ethylbenzene. Year 2006 and 2007 Type II (shallow) data includes laboratory results from newly installed well points where contamination is relatively

high. The new well points, however, are to the south of the remediation system and across Brewster Boulevard. Note that **BOLD** text indicates NCGWQS exceedences, and not all contaminants of concern are listed. Historical groundwater sampling data from previous reports can be found in **Appendix A**.

**Maximum Concentrations (µg/L)
Type II (Shallow) Monitoring Wells**

Compound	NCGWQS (µg/L)	1993 Pre-remediation	2003	2004	2005	2006	2007	2008	2008- 2009
Benzene	1	3,550	2.4	3.0	2.0	1.98	1.29J	BQL	BQL
Ethylbenzene	550	2,320	110	107	53.8	25.1	45.0	15.1	11.3
Total Xylenes	530	131,000	716	481	240	54.5	92.7	12.1	26.1
Toluene	1,000	10,700	113	82.8	27.9	25.6	56.6	18.35	4.6

**Maximum Concentrations (µg/L)
Type III (Deep) Monitoring Wells**

Compound	NCGWQS (µg/L)	July 1998 Pre- remediation	2003	2004	2005	2006¹	2007¹	2008	2008- 2009
Benzene	1	850	788	461	151	964	3,260	1,780	1,030
Ethylbenzene	550	220	838	609	549	173	330	72.8	191
Total Xylenes	530	1,610	2,490	1,440	989	78.2	1,572	4,500	670
Toluene	1,000	1,300	3,570	2,320	949	2,900	13,900	1,011	3,770

Historical data from 2006 CATLIN Remedial Action Optimization (RAO) and RCAP Addendum report.
2006 maximums taken from Sovereign and CATLIN data; 2007 and 2008 data includes Sovereign sampling events only.
BQL = Below Quantitation Limit
ND = Not Detected
NE = Not Established
NR = Not Reported
E = Estimated concentration above the linear quantitation range
J = Estimated concentration less than reporting limit
¹ = Type III wells, MW26-MW32, installed by Catlin in 2006 giving new data points.

5.0 RECEPTOR SURVEY

Shaw reassessed site conditions and concluded that the receptor survey previously completed by CATLIN RAO & RCAP dated August 26, 2004 still applies. There has been no change in receptor impact, and there have been no changes to land use of the site or the surrounding areas.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on historical data and fieldwork and laboratory analytical data gathered during the 2008-2009 monitoring period, the following conclusions are presented:

1. No measurable free product was observed at any site well during the monitoring period.
2. VOCs and SVOCs are present in intermediate and deep zone groundwater monitoring wells at concentrations above NCGWQS.

The remediation system appears to have reduced dissolved contaminant levels in the shallow and intermediate zones in the areas where air sparge wells are located. Groundwater contamination in excess of the North Carolina Administrative Code T15A:2L Groundwater Quality Standards (2L GWQS), however, remains present outside the area of influence of the remediation system at depths of approximately 80 feet bls. CATLIN installed additional deep Type III wells (80 feet and 100 feet bls) in 2006 in an attempt to determine the vertical and horizontal extent of contamination. Following further delineation and refinement of the dissolved contaminant plume, CATLIN prepared a CAP Supplement to propose and evaluate various revised remedial approaches to address the presence of dissolved contaminants within the Deep Zone. Implementation of the CAP Supplement recommendations is currently under evaluation.

In the interim, Shaw recommends continued operation of the remediation system with semi-annual gauging for wells UST645-MW01 through UST645-MW37 and annual sampling of the following wells: UST645-MW01, UST645-MW02, UST645-MW03, UST645-MW07, UST645-MW10, UST645-MW16, UST645-MW18, UST645-MW22, UST645-MW26, UST645-MW27, UST645-MW28, UST645-MW29, UST645-MW30, UST645-MW31, UST645-MW32, UST645-MW33, UST645-MW34, UST645-MW35, UST645-MW36 and UST645-MW37. Groundwater samples should be analyzed per EPA Method 601/602 plus Xylenes. Findings and recommendations should be summarized in the next AMR.

7.0 REFERENCES

AH Environmental Consultants, *Final Report, Wellhead Protection Plan – 2002 Update, Marine Corps Base, Camp Lejeune*, August 2002.

Richard Catlin and Associates, Inc., *Leaking Underground Storage Tank Comprehensive Site Assessment, Building 645, Marine Corps Base, Camp Lejeune, North Carolina*, April 28, 1995.

Richard Catlin and Associates, Inc., *Leaking Underground Storage Tank Addendum Site Assessment, Building 645, Marine Corps Base, Camp Lejeune, North Carolina*, June 12, 1996.

Richard Catlin and Associates, Inc., *Leaking Underground Storage Tank Corrective Action Plan, Building 645, Marine Corps Base, Camp Lejeune, North Carolina*, September 25, 1996.

CATLIN Engineers and Scientists, *Remedial Action Optimization and Revised Corrective Action Plan, Building 645, Marine Corps Base Camp, Lejeune, North Carolina*, August 26, 2004.

CATLIN Engineers and Scientists, *Remedial Action Optimization and Revised Corrective Action Plan Addendum, Building 645, Marine Corps Base Camp, Lejeune, North Carolina*, 2006.

Engineering and Environment, Inc., *Annual Groundwater Monitoring Report 2003-2005, Building 645 Site, Camp Lejeune, North Carolina*, January 17, 2006.

North Carolina Department of Environment and Natural Resources, Division of Waste Management, Underground Storage Tank Section, *Guidelines for Assessment and Corrective Action*, April 2001.

R.E. Wright Associates, Inc., *Three Well Site Check, Marine Corps Base, Camp Lejeune, North Carolina, Building HP-645 (AST)*, March 1994.

Sovereign Consulting Inc., *FINAL Annual Groundwater Monitoring Report 2005-2006, Building 645, MCB Camp Lejeune, North Carolina*, June 2006.

Sovereign Consulting Inc., *FINAL Annual Groundwater Monitoring Report 2007-2008, Building 645, MCB Camp Lejeune, North Carolina*, June 2008.

TABLES

TABLE 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparging (AS) / Soil Vapor Extraction (SVE) System
Data and Graph
MCB CAMP LEJEUNE - Building 645
SVE Stack

Date	Time	SVE Valve Hour Meter (Hrs)	TH Conc (PPM _{measured}) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Pressure (^o Hg)	Absolute Temperature (degrees Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
09/03/08	10:30	34235	0	8600	300.92	565	4370	0.000	0.0	0.0	
09/10/08	10:00	34374	0	8600	300.92	565	4370	0.000	0.0	0.0	
09/17/08	12:00	34515	0	8600	300.92	569	4340	0.000	0.0	0.0	
09/24/08	10:45	34656	0	8600	300.92	570	4332	0.000	0.0	0.0	
09/30/08	14:30	34749	0	8700	300.92	575	4344	0.000	0.0	0.0	
10/09/08	10:50	34863	0	8500	300.92	580	4208	0.000	0.0	0.0	
10/17/08	15:30	34973	0	8600	300.92	594	4160	0.000	0.0	0.0	
10/21/08	14:05	35067	0	8500	300.92	601	4059	0.000	0.0	0.0	
11/01/08	16:15	35333	0	8400	300.92	600	4021	0.000	0.0	0.0	
11/10/08	8:15	35474	0	8600	300.92	564	4377	0.000	0.0	0.0	
11/17/08	9:15	35567	0	8500	300.92	553	4412	0.000	0.0	0.0	
11/20/08	15:25	35644	0	9000	300.92	554	4663	0.000	0.0	0.0	
11/24/08	15:10	35739	0	9500	300.92	548	4977	0.000	0.0	0.0	
12/04/08	15:45	35979	22	9430	300.92	548	4938	0.117	51.7	258.5	
12/10/08	11:00	36118	0	7200	300.92	547	3779	0.000	0.0	408.3	
12/19/08	10:50	36334	0	9000	300.92	556	4648	0.000	0.0	408.4	
12/31/08	13:00	36620	0	8600	300.92	563	4386	0.000	0.0	408.4	
01/07/09	13:50	36799	0	7000	300.92	565	3555	0.000	0.0	408.4	
01/22/09	14:40	37152	0	1400	300.92	549	732	0.000	0.0	408.4	
01/28/09	10:15	37292	0	0	300.92	557	0	0.001	0.0	408.4	
02/06/09	13:08	37469	0	9480	300.92	551	4938	0.000	0.0	408.4	
02/13/09	15:00	37588	0	700	300.92	552	364	0.000	0.0	408.4	
02/19/09	12:30	37633	0	8100	300.92	567	4102	0.000	0.0	408.4	02/27 no readings system down due to sampling

TABLE 3.1
Cumulative Mass of Volatile Hydrocarbons Recovered
Air Sparging (AS) / Soil Vapor Extraction (SVE) System
Data and Graph
MCB CAMP LEJEUNE - Building 645
SVE Stack

Date	Time	SVE Valve Hour Meter (Hrs)	TH Conc (PPM _{measured}) (PPMv)	Vapor Velocity (V) (ft/min)	Absolute Pressure (^o Hg)	Absolute Temperature (degrees Rankine)	Calculated Vapor Flowrate (Q) (SCFM)	TH Conc (C) (mg/l)	TH Recovery Rate (M) (lb/day)	Cumulative Mass of Hydrocarbons Recovered (lbs)	Comments
03/06/09	11:30	37827	0	8100	300.92	567	4102	0.000	0.0	408.4	Extrapolated Data
03/12/09	15:00	37945	0	1150	300.92	575	574	0.000	0.0	408.4	
03/19/09	13:40	38136	0	1200	300.92	550	626	0.000	0.0	408.4	
03/27/09	11:30	38326	0	1800	300.92	550	940	0.000	0.0	408.4	
04/06/09	10:30	38565	0	1800	300.92	550	940	0.000	0.0	408.4	
04/23/09	10:00	38969	0	9000	300.92	567	4557	0.000	0.0	408.4	
04/30/09	10:00	39092	0	5400	300.92	559	2776	0.000	0.0	408.4	

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)

percent water vapor by volume 0.003
SVE Stack pipe diameter 10

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

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 (^o Hg)

P_{std}: standard pressure (29.92^o 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)

Assumptions:

Mg = 128 mg/mg-mole

Kg = 24.07 dsm³/10⁶ gm -mole

B = 0.003 from Perry's Chemical Handbook

A = 0.545 sq. ft

TABLE 3.1
Cummulative Mass of Volatile Hydrocarbons Recovered
Air Sparging (AS) / Soil Vapor Extraction (SVE) System
Data and Graph
MCB Camp Lejeune - Building 645
SVE Stack

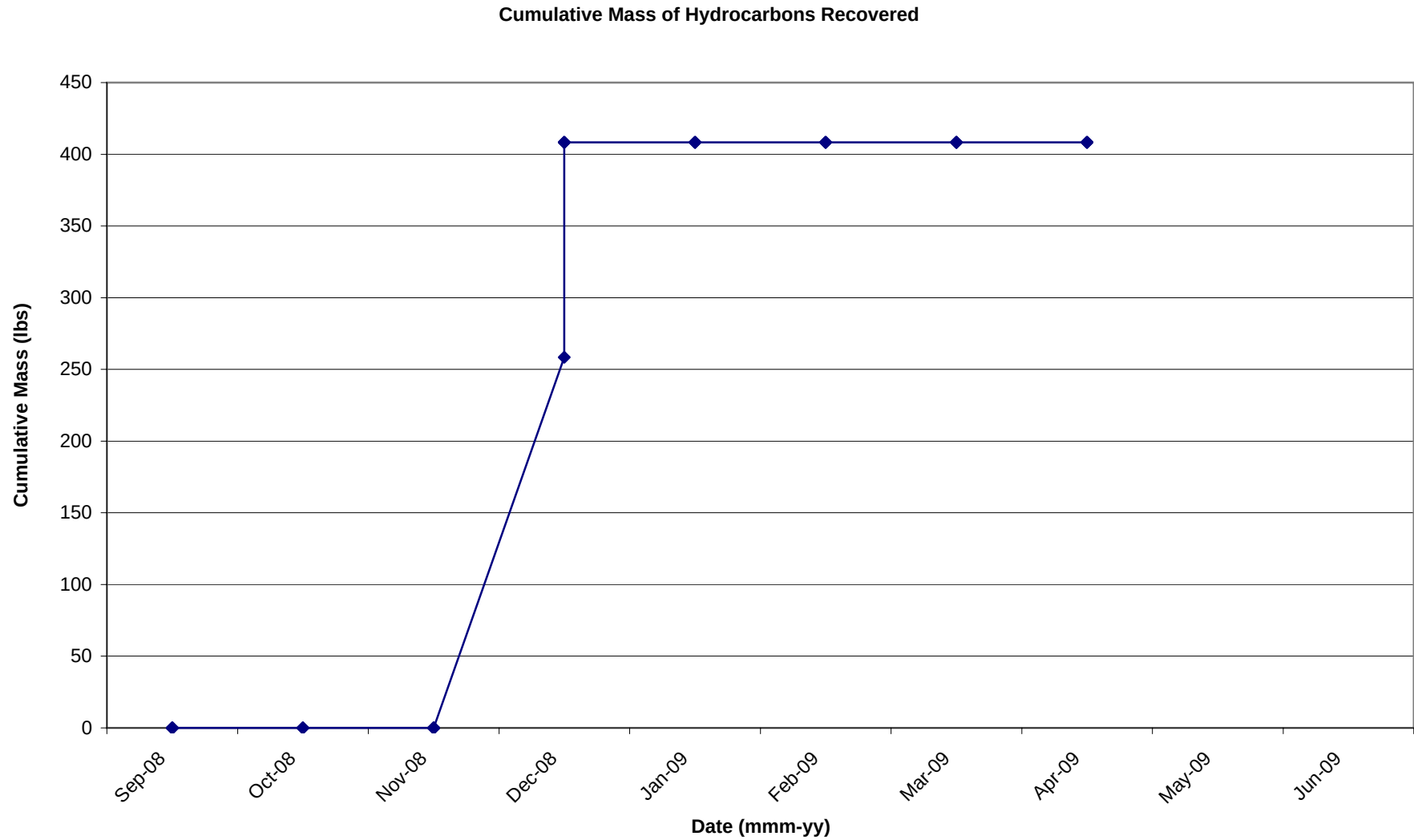


Table 4.1
Groundwater Elevation Table
Building 645
MCB Camp Lejeune, North Carolina

Well No.	Well Type (depth)	Well Depth	Top of Casing	Date Measured	Depth (BTC)	Elev. (NGVD)	Date Measured	Depth (BTC)	Elev. (NGVD)
UST645-MW01	shallow	24.22	27.42	Oct-08	14.56	12.86	Feb-09	16.43	10.99
UST645-MW02	shallow	24.33	28.40	Oct-08	15.35	13.05	Feb-09	17.33	11.07
UST645-MW03	shallow	25.15	28.83	Oct-08	15.72	13.11	Feb-09	17.34	11.49
UST645-MW04	shallow	15.98	24.25	Oct-08	8.28	15.97	Feb-09	5.66	18.59
UST645-MW05	shallow	23.68	29.19	Oct-08	16.31	12.88	Feb-09	15.93	13.26
UST645-MW06	shallow	25.20	30.26	Oct-08	17.48	12.78	Feb-09	16.78	13.48
UST645-MW07	shallow	23.80	26.88	Oct-08	18.73	8.15	Feb-09	18.93	7.95
UST645-MW08	shallow	26.02	28.56	Oct-08	16.00	12.56	Feb-09	16.35	12.21
UST645-MW09	deep	52.96	29.03	Oct-08	20.14	8.89	Feb-09	15.83	13.20
UST645-MW10	deep	49.80	26.94	Oct-08	18.21	8.73	Feb-09	18.94	8.00
UST645-MW11	deep	44.10	28.78	Oct-08	19.99	8.79	Feb-09	22.67	6.11
UST645-MW12	intermediate	37.95	28.48	Oct-08	17.74	10.74	Feb-09	12.55	15.93
UST645-MW13	intermediate	36.77	28.75	Oct-08	NM	NM	Feb-09	23.93	4.82
UST645-MW14	shallow	32.35	27.13	Oct-08	18.48	8.65	Feb-09	19.15	7.98
UST645-MW15	deep	85.50	26.13	Oct-08	14.05	12.08	Feb-09	18.91	7.22
UST645-MW16	deep	81.19	27.35	Oct-08	18.85	8.50	Feb-09	19.73	7.62
UST645-MW17	deep	79.36	26.55	Oct-08	NM	NM	Feb-09	18.92	7.63
UST645-MW18	deep	77.19	27.87	Oct-08	19.22	8.65	Feb-09	20.37	7.50
UST645-MW19	shallow	34.65	27.41	Oct-08	18.67	8.74	Feb-09	19.30	8.11
UST645-MW20	deep	49.40	27.28	Oct-08	18.69	8.59	Feb-09	19.36	7.92
UST645-MW21	deep	81.81	22.13	Oct-08	13.46	8.67	Feb-09	14.60	7.53
UST645-MW22	deep	80.00	27.33	Oct-08	18.70	8.63	Feb-09	19.77	7.56
UST645-MW23	shallow	29.35	27.42	Oct-08	12.82	14.60	Feb-09	17.12	10.30
UST645-MW24	shallow	18.75	24.56	Oct-08	12.03	12.53	Feb-09	12.59	11.97
UST645-MW25	shallow	23.38	24.74	Oct-08	15.88	8.86	Feb-09	16.88	7.86
UST645-MW26	deep	80.37	26.33	Oct-08	17.55	8.78	Feb-09	18.58	7.75
UST645-MW27	deep	81.14	29.66	Oct-08	20.53	9.13	Feb-09	21.39	8.27
UST645-MW28	deep	78.37	26.75	Oct-08	16.95	9.80	Feb-09	18.55	8.20
UST645-MW29	deep	78.55	25.67	Oct-08	17.21	8.46	Feb-09	18.11	7.56
UST645-MW30	deep	78.28	28.77	Oct-08	20.13	8.64	Feb-09	20.78	7.99
UST645-MW31	deep	100.00	28.27	Oct-08	19.72	8.55	Feb-09	20.28	7.99
UST645-MW32	deep	78.26	28.84	Oct-08	19.92	8.92	Feb-09	20.90	7.94

** NGVD = National Geodetic Vertical Datum

NM-not measured due to surging

Table 4.2
Field Data Summary
 Building 645, MCB Camp LeJeune, North Carolina
October 2008 / March 2009 Field Data Shallow

Client Sample ID:		UST645-MW01	UST645-MW01	UST645-MW02	UST645-MW02	UST645-MW03	UST645-MW03	UST645-MW04	UST645-MW04	UST645-MW05
Date Sampled:		03/02/09	10/14/08	03/02/09	10/14/08	03/02/09	10/16/08	03/04/09	10/16/08	02/27/09
Analyte	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters										
Depth to Water	feet	16.43	14.56	17.33	15.35	17.34	15.72	5.66	8.28	15.93
pH	-	5.40	4.40	5.65	4.32	5.58	5.27	6.08	6.40	4.61
Conductivity	mS/m	0.187	0.151	0.206	0.119	0.126	0.166	0.156	0.114	0.080
Turbidity	NTU	3.7	0.0	323.7	52.1	4.5	5.4	13.4	1304.3	1.9
Dissolved Oxygen	mg/L	2.26	8.59	2.66	7.31	3.34	7.29	5.13	5.34	0.78
Temperature	°C	18.09	24.34	17.52	22.52	17.39	21.44	7.74	20.05	18.14
Oxygen-Reduction Potential	mV	-37.1	354.4	-40.2	55.8	20.9	50.9	161.5	-11.9	23.8

Table 4.2
Field Data Summary
 Building 645, MCB Camp LeJeune, North Carolina
October 2008 / March 2009 Field Data Shallow

Client Sample ID:		UST645-MW05	UST645-MW06	UST645-MW06	UST645-MW07	UST645-MW07	UST645-MW08	UST645-MW08	UST645-MW14	UST645-MW14
Date Sampled:		10/16/08	02/27/09	10/15/08	03/04/09	10/16/08	02/27/09	10/15/08	03/04/09	10/16/08
Analyte	Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters										
Depth to Water	feet	16.31	16.78	17.48	18.93	18.73	16.35	16.00	19.15	18.48
pH	-	4.75	5.10	4.26	3.08	2.77	4.27	3.73	6.63	6.50
Conductivity	mS/m	0.193	0.091	0.108	4.008	3.349	0.153	0.241	1.729	1.784
Turbidity	NTU	63.1	51.0	5.2	0.1	27.6	41.4	48.7	4.5	5.5
Dissolved Oxygen	mg/L	1.96	3.09	1.91	0.91	3.33	7.86	6.02	0.77	3.10
Temperature	°C	19.55	18.85	22.94	20.45	22.76	20.43	20.04	20.38	22.36
Oxygen-Reduction Potential	mV	215.4	123.3	-12.4	359.8	380.2	114.0	97.2	-113.7	-122.4

Table 4.2
Field Data Summary
 Building 645, MCB Camp LeJeune, North Carolina
October 2008 / March 2009 Field Data Shallow

Client Sample ID:		UST645-MW19	UST645-MW19	UST645-MW23	UST645-MW23	UST645-MW24	UST645-MW24	UST645-MW25	UST645-MW25
Date Sampled:		03/04/09	10/15/08	03/02/09	10/15/08	03/02/09	10/14/08	03/05/09	10/14/08
Analyte	Unit	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Depth to Water	feet	19.30	18.67	17.12	12.82	12.59	12.03	16.88	15.88
pH	-	3.16	3.23	5.53	4.41	4.59	NS	3.74	3.62
Conductivity	mS/m	1.120	0.667	0.102	0.104	0.103	NS	0.162	0.137
Turbidity	NTU	7..7	32.6	1339.9	190.6	79.6	NS	17.2	52.9
Dissolved Oxygen	mg/L	1.78	4.38	5.31	8.77	6.30	NS	4.73	5.57
Temperature	°C	18.92	29.10	16.38	23.12	16.12	NS	19.49	22.87
Oxygen-Reduction Potential	mV	467.0	373.9	206.1	330.5	117.7	NS	429.6	85.1

Table 4.3
Analytical data Summary
Building 645
October 2008 / March 2009 Shallow

Date: 5/7/2009 Incident Number and Name: 125709 Bldg 645 Wells

Analytical Method: 601/602

Contaminant of Concern			Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	2-Chloroethyl vinyl ether	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Dibromochloromethane	Dichlorodifluoromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	m-Dichlorobenzene	o-Dichlorobenzene	p-Dichlorobenzene	trans-1,2-Dichloroethylene	trans-1,3-Dichloropropene	Ethylbenzene	Methyl bromide	Methyl chloride	Methylene chloride	Methyl Tert Butyl Ether	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Trichlorofluoroethene	Vinyl chloride	Xylenes (total)	
UST645-MW01	10/14/2008 3/2/2009	N/A N/A	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 11.3	<2.0 <2.0	<2.0 <2.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 4.6	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<3.0 7.6		
UST645-MW02	10/14/2008 3/2/2009	N/A N/A	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	0.7 J <1.0	<4.0 <4.0	<2.0 0.39 J	<1.0 <1.0	0.5 J <1.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	2.2 J <2.0	<2.0 <2.0	<2.0 <2.0	1.5 J <1.0	0.7 J <1.0	1.7 J <1.0	<2.0 <2.0	<2.0 <2.0	1.2 J 6.6	<4.0 <4.0	<4.0 <4.0	4.2 J <5.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	<2.0 <2.0	2.9 2.9	0.91 J 1.1	1.3 J <1.0	<4.0 <4.0	<2.0 <2.0	<6.0 26.1	
UST645-MW03	10/16/2008 3/2/2009	N/A N/A	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	0.7 J 0.54 J	<2.0 <2.0	<2.0 <2.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	0.48 J <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	2.0 J <3.0	
UST645-MW04	10/16/2008 3/4/2009	N/A N/A	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	0.52 J <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<3.0 <3.0		
UST645-MW05	10/16/2008 2/27/2009	N/A N/A	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<3.0 <3.0	
UST645-MW06	10/15/2008 2/27/2009	N/A N/A	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<3.0 <3.0	
UST645-MW07	10/16/2008 3/4/2009	N/A N/A	0.43 J <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	0.68 J <2.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	0.72 J <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	1.5 J <1.0	
UST645-MW08	10/15/2008 2/27/2009	N/A N/A	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<3.0 <3.0	
UST645-MW14	10/16/2008 3/4/2009	N/A N/A	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<3.0 <3.0	
UST645-MW19	10/15/2008 3/4/2009	N/A N/A	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	1.1 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<3.0 <3.0
UST645-MW23	10/15/2008 3/2/2009	N/A N/A	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<3.0 <3.0	
UST645-MW24	3/2/2009	N/A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	
UST645-MW25	10/14/2008 3/5/2009	N/A N/A	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<2.0 <2.0	<5.0 <5.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<2.0 <2.0	<1.0 <1.0	<3.0 <3.0	
GWQS (ug/L)			1	NS	0.19	50	NS	70	NS	NS	70	7	0.38	0.51	0.41	1400	70	0.19	NS	NS	NS	100	0.19	550	NS	2.6	4.6	200	200	0.17	NS	0.7	1000	2.8	2100	0.015	530	
GCL (ug/L)			5000	NS	190	50000	NS	70000	NS	NS	700000	7000	380	510	410	140000	70000	190	NS	NS	NS	100000	190	84500	NS	2600	4600	200000	200000	170	NS	700	257500	2800	210000	15	87500	

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

List any contaminant detected above the method detection limit

Detectable concentration exceeds GWQS

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

GCL = Gross Contamination Level

Results must be reported in ug/L

ug/L = micrograms per liter

NA = not applicable

NS = no standard

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

Method 624 substituted for 601/602 for October 2008 and February 2009 events 601/602 analytes only reported.

Table 4.4
Field Data Summary
Building 645, MCB Camp Lejeune, North Carolina
October 2008 / March 2009 Field Data Deep

Client Sample ID:		UST645-MW09	UST645-MW09	UST645-MW10	UST645-MW10	UST645-MW11	UST645-MW11	UST645-MW12	UST645-MW12
Date Sampled:		02/27/09	10/14/08	03/05/09	10/16/08	02/27/09	10/15/08	02/27/09	10/16/08
Analyte	Unit	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Depth to Water	feet	15.83	20.14	18.94	18.21	22.67	19.99	12.55	17.74
pH	-	6.56	5.05	6.61	6.44	4.36	4.03	3.03	3.27
Conductivity	mS/m	2.269	2.334	2.770	2.862	1.463	0.967	0.641	0.436
Turbidity	NTU	0.3	18.9	18.3	0.9	35.2	30.1	6.0	40.8
Dissolved Oxygen	mg/L	5.93	0.81	0.51	3.33	1.54	1.87	5.94	5.17
Temperature	°C	19.57	20.59	20.11	20.98	19.24	18.62	19.45	21.39
Oxygen-Reduction Potential	mV	180.6	40.3	-101.1	-86.3	62.9	53.3	520.1	53.7

Table 4.4
Field Data Summary
Building 645, MCB Camp Lejeune, North Carolina
October 2008 / March 2009 Field Data Deep

Client Sample ID:		UST645-MW13	UST645-MW13	UST645-MW15	UST645-MW15	UST645-MW16	UST645-MW16	UST645-MW17	UST645-MW17
Date Sampled:		02/27/09	10/15/08	03/04/09	10/15/08	03/04/09	10/15/08	03/02/09	10/15/08
Analyte	Unit	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Depth to Water	feet	23.93	13.50	18.91	14.05	19.73	18.85	18.92	14.21
pH	-	2.95	3.00	7.28	7.08	7.01	6.50	7.13	6.99
Conductivity	mS/m	1.392	0.650	2.138	2.835	2.449	2.360	1.811	1.882
Turbidity	NTU	117.1	78.4	20.7	24.3	2.4	8.6	0.7	4.2
Dissolved Oxygen	mg/L	9.29	8.72	8.74	9.79	0.63	0.51	6.11	2.63
Temperature	°C	19.44	18.31	19.15	23.80	19.00	22.29	16.10	23.67
Oxygen-Reduction Potential	mV	460.2	175.0	79.9	220.6	-90.7	-142.2	62.4	267.4

Table 4.4
Field Data Summary
Building 645, MCB Camp Lejeune, North Carolina
October 2008 / March 2009 Field Data Deep

Client Sample ID:		UST645-MW18	UST645-MW18	UST645-MW20	UST645-MW20	UST645-MW21	UST645-MW21	UST645-MW22	UST645-MW22
Date Sampled:		02/27/09	10/15/08	03/04/09	10/15/08	03/04/09	10/16/08	03/02/09	10/15/08
Analyte	Unit	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Depth to Water	feet	20.37	19.22	19.36	18.69	14.60	13.46	19.77	18.70
pH	-	11.92	11.65	6.74	6.46	7.08	6.93	6.90	6.76
Conductivity	mS/m	4.230	6.750	2.109	1.625	0.159	0.152	3.015	3.013
Turbidity	NTU	6.7	0.0	12.8	1.9	5.8	-1.6	12.9	11.0
Dissolved Oxygen	mg/L	3.49	5.63	0.58	1.57	8.55	4.00	8.70	9.42
Temperature	°C	19.04	22.29	19.09	23.75	17.14	18.08	16.76	18.83
Oxygen-Reduction Potential	mV	-130.3	-14.3	-86.7	-16.9	98.8	8.2	72.5	209.3

Table 4.4
Field Data Summary
Building 645, MCB Camp Lejeune, North Carolina
October 2008 / March 2009 Field Data Deep

Client Sample ID:		UST645-MW26	UST645-MW26	UST645-MW27	UST645-MW27	UST645-MW28	UST645-MW28	UST645-MW29	UST645-MW29
Date Sampled:		03/02/09	10/15/08	03/02/09	10/15/08	02/27/09	10/15/08	02/27/09	10/15/08
Analyte	Unit	Result	Result	Result	Result	Result	Result	Result	Result
Field Parameters									
Depth to Water	feet	18.58	17.55	21.39	20.53	18.55	16.95	18.11	17.21
pH	-	6.81	6.69	7.16	7.03	9.77	9.57	7.13	6.83
Conductivity	mS/m	0.899	0.991	0.349	0.425	0.121	0.133	0.503	0.548
Turbidity	NTU	22.3	0.1	-0.9	0.0	1.3	6.4	4.9	0.8
Dissolved Oxygen	mg/L	5.22	1.45	1.82	2.85	5.95	5.65	0.23	0.82
Temperature	°C	17.13	19.49	16.35	21.82	18.99	20.58	18.56	20.16
Oxygen-Reduction Potential	mV	54.4	-132.6	-38.7	98.1	-55.8	26.4	-115.7	-101.0

Table 4.4
Field Data Summary
Building 645, MCB Camp Lejeune, North Carolina
October 2008 / March 2009 Field Data Deep

Client Sample ID:		UST645-MW30	UST645-MW30	UST645-MW31	UST645-MW31	UST645-MW32	UST645-MW32
Date Sampled:		02/27/09	10/16/08	02/27/09	10/15/08	03/04/09	10/15/08
Analyte	Unit	Result	Result	Result	Result	Result	Result
Field Parameters							
Depth to Water	feet	20.78	20.13	20.28	19.72	20.90	19.92
pH	-	8.68	7.94	7.03	7.33	6.91	7.00
Conductivity	mS/m	0.243	0.260	0.084	0.075	0.147	0.475
Turbidity	NTU	1.3	-1.3	1.1	-2.5	-0.9	0.0
Dissolved Oxygen	mg/L	4.96	2.86	0.46	2.50	3.18	2.75
Temperature	°C	18.59	18.46	18.83	22.28	15.79	21.71
Oxygen-Reduction Potential	mV	18.9	0.4	1.2	68.2	56.6	109.8

October 2008 / March 2009 Deep

601/602

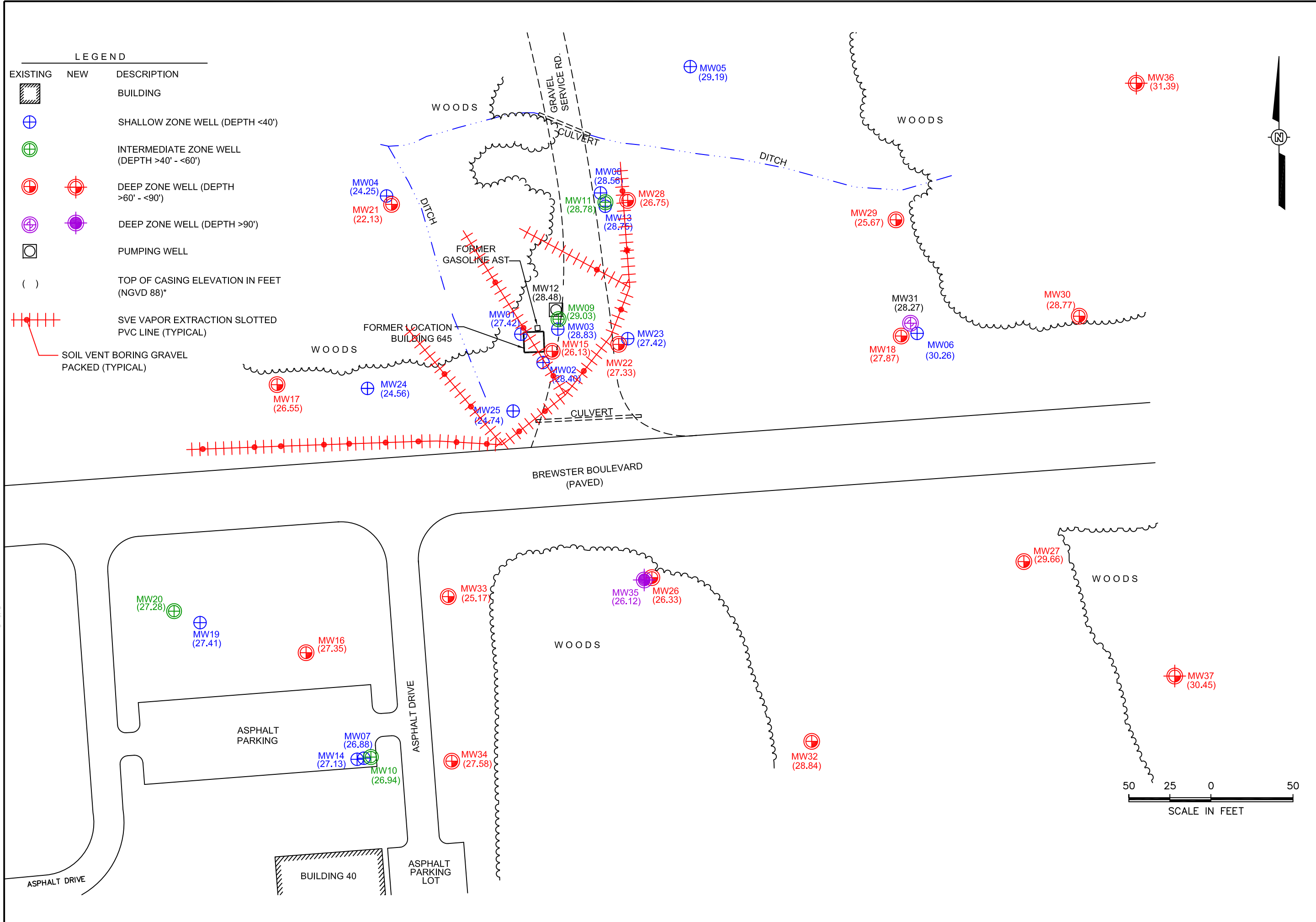
601/602

Method 624 substituted for 601/602 for October 2008 and February 2009 events 601/602 analytes only reported.

FIGURES

File: N:\T.Richardson\Government\Camp Lejeune\Site 645\Figure 2_Site Map and Well Locations_R1.dwg
Plot Date/Time: May 07, 2009 - 9:17am
Plotted By: thomas.richardson

Image : 3728_001.tif
CATLIN new logo.jpg

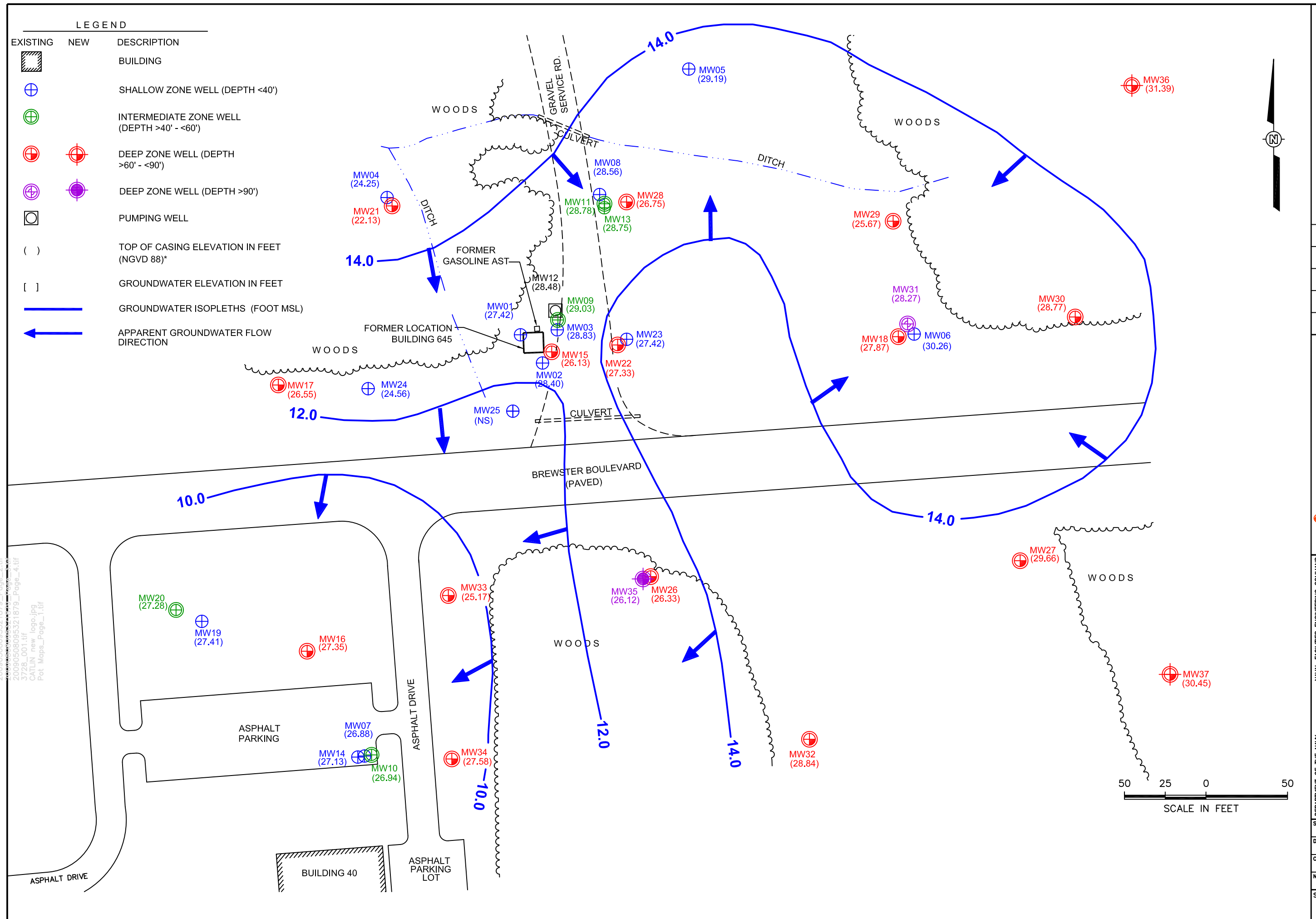


DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND		PROJECT NO. 125709	
NAVAL STATION		ATLANTIC DIVISION		DESIGNED BY	
MCB CAMP LEJEUNE		NORFOLK, VIRGINIA		JW	
		JACKSONVILLE N.C.		TR	
		BUILDING 645		CHECKED BY	
		ANNUAL REPORT 2008-2009		5/6/09	
		SITE MAP AND WELL LOCATIONS		BR	
				MP	
				APPROVED BY	
				5/6/09	
				CHK'D APRVD	
				DATE	
				REV	
				DESCRIPTION/ISSUE	
				REVISIONS	



SHAW
Environmental, Inc.

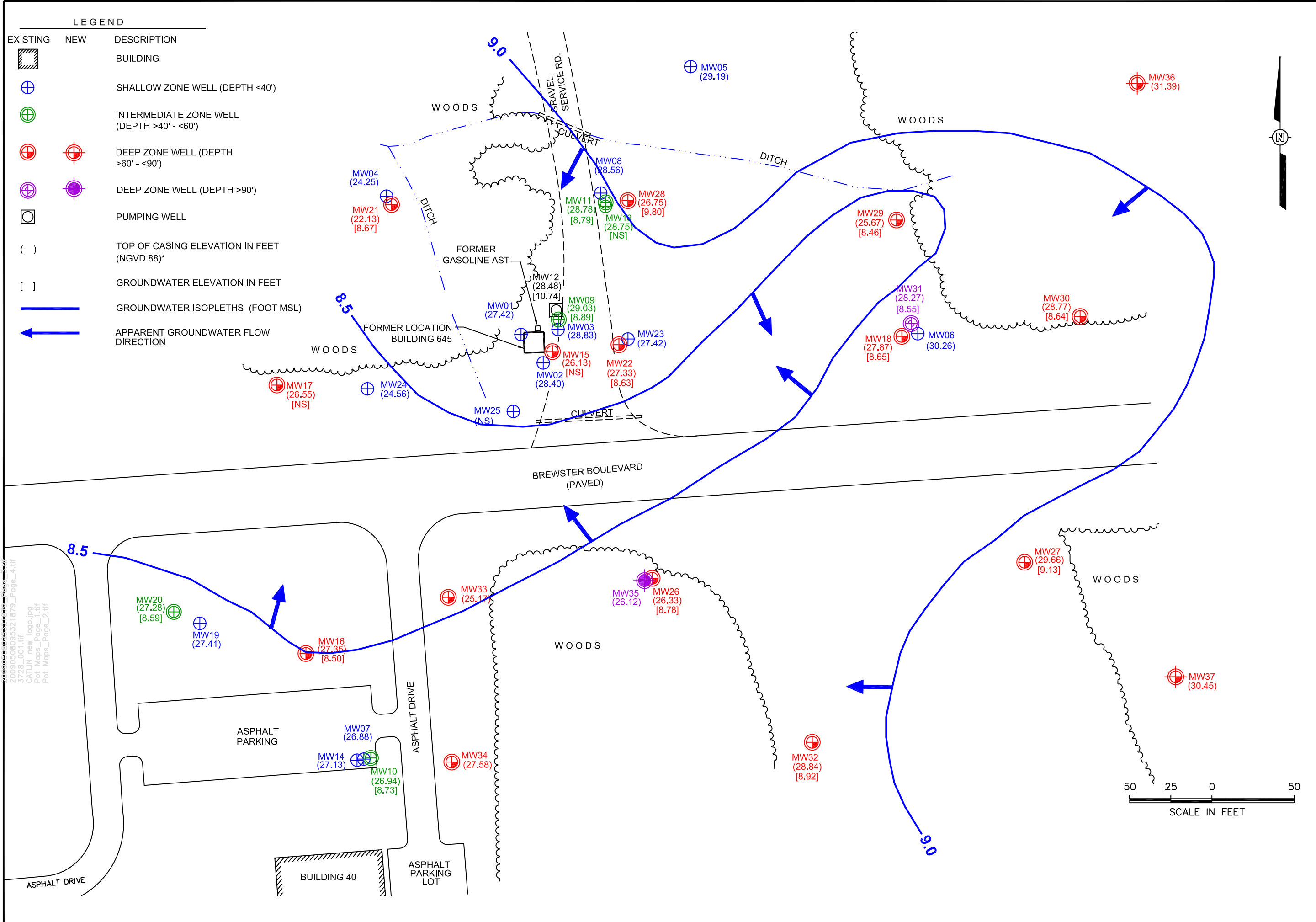
SCALE:	SIZE:
AS SHOWN	B
DELIVERY ORDER NO.	
CONSTR. CONTRACT NO.	
NAVFAC DRAWING NO.	
SHEET I.D.	
FIGURE 2	



SHEET I.D.										FIGURE 3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NAVFAC DRAWING NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
CONSTR. CONTRACT NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
DELIVERY ORDER NO.										SIZE: B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
AS SHOWN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NAVAL STATION MCB CAMP LEJEUNE										BUILDING 645 ANNUAL REPORT 2008-2009																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
ATLANTIC DIVISION										SHALLOW WELL GROUNDWATER ELEVATIONS-OCTOBER 2008																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NAVY FACILITIES ENGINEERING COMMAND DEPARTMENT OF THE NAVY										NORFOLK, VIRGINIA JACKSONVILLE N.C.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
										Shaw Environmental, Inc.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
										PROJECT NO. 125709																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

File: N:\Camp Lejeune _Jacksonville N.C\Site 645\Figure 3 thru 6_2008-2009_GW Elevations.dwg
Plot Date/Time: May 20, 2009 - 1:31pm
Plotted By: thomas.richardson

Image : 20090508095321879_Page_1.tif
Xref : 20090508095321879_Page_2.tif
20090508095321879_Page_3.tif
20090508095321879_Page_4.tif
3728_001.tif
CATLIN new logo.jpg
Pot Maps_Page_1.tif
Pot Maps_Page_2.tif



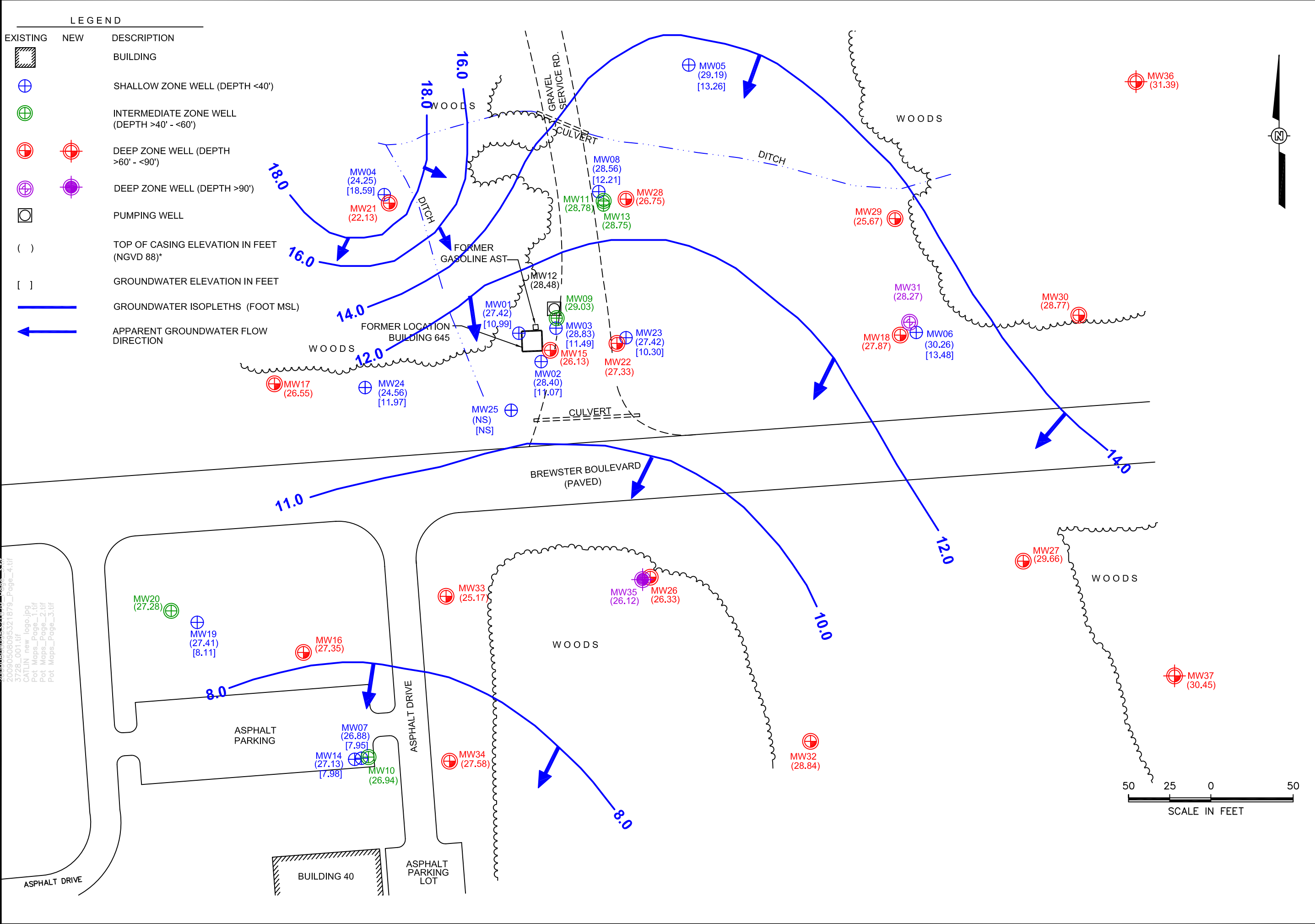
DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND		PROJECT NO. 125709	
NAVAL STATION		ATLANTIC DIVISION		DESIGNED BY	
MCR CAMP LEJEUNE		NORFOLK, VIRGINIA		CHECKED BY	
		JACKSONVILLE N.C.		APPROVED BY	
		BUILDING 645		DATE	
		ANNUAL REPORT 2008-2009		REV	
		DEEP WELL GROUNDWATER ELEVATIONS-OCTOBER 2008		BY	
				CHK'D	
				APPROV	
				DESCRIPTION/ISSUE	
				REVISIONS	



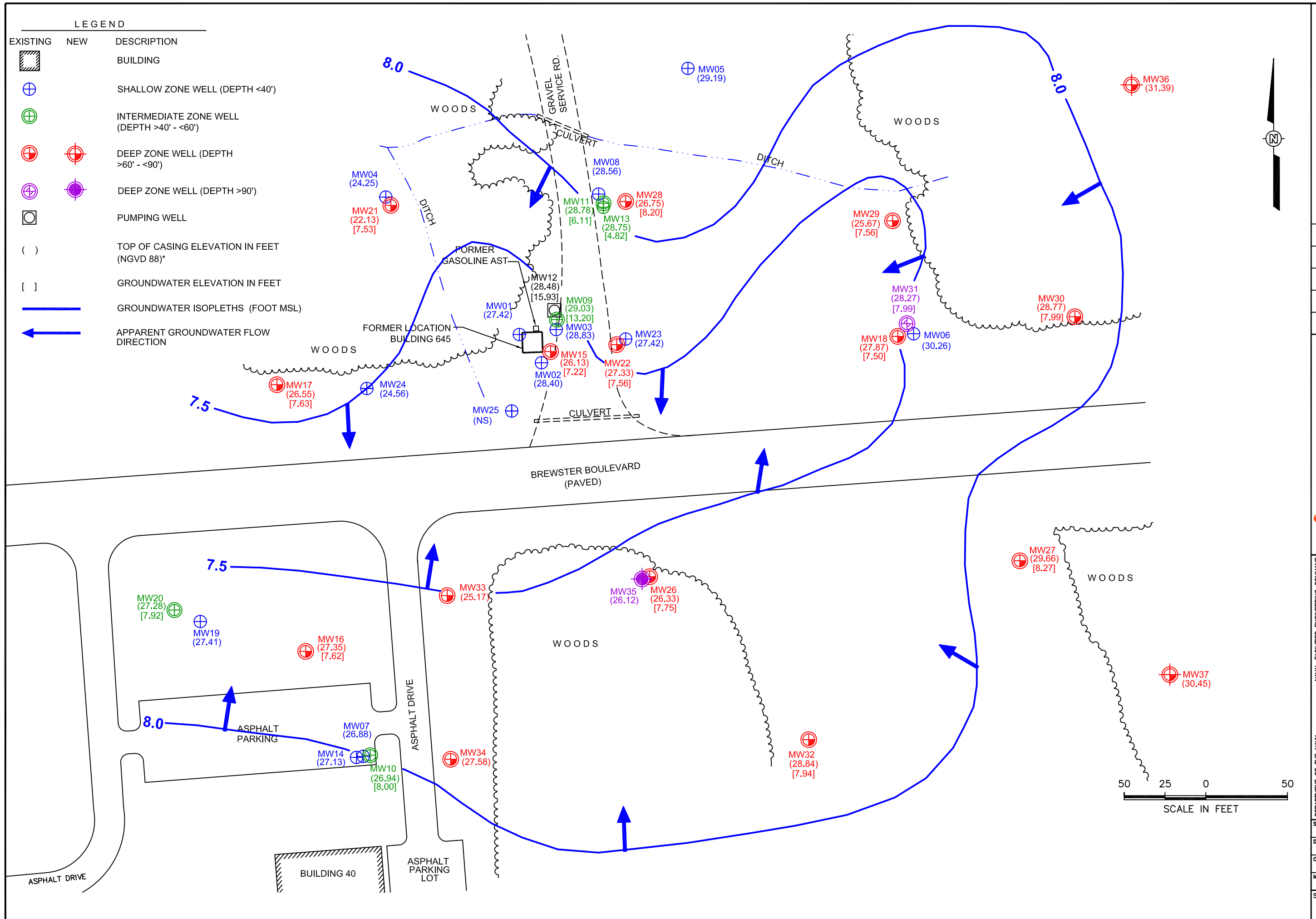
Shaw Environmental, Inc.
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NORFOLK, VIRGINIA
JACKSONVILLE N.C.
BUILDING 645
ANNUAL REPORT 2008-2009
DEEP WELL GROUNDWATER ELEVATIONS-OCTOBER 2008

SCALE: AS SHOWN
DELIVERY ORDER NO.
CONSTR. CONTRACT NO.
NAVFAC DRAWING NO.
SHEET I.D.
FIGURE 4

File: N:\Camp Lejeune _Jacksonville N.C\Site 645\Figure 3 thru 6_2008-2009_GW Elevations.dwg
Plot Date/Time: May 20, 2009 - 1:52pm
Plotted By: thomas.richardson



DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND																					
NAVAL STATION		ATLANTIC DIVISION		NORFOLK, VIRGINIA																			
MCB CAMP LEJEUNE				JACKSONVILLE, N.C.																			
SCALE:		AS SHOWN		SIZE:		B																	
DELIVERY ORDER NO.																							
CONSTR. CONTRACT NO.																							
NAVFAC DRAWING NO.																							
SHEET I.D.																							
FIGURE 5																							



DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MCB CAMP LEJEUNE Shaw Shaw Environmental, Inc. PROJECT NO. 125709																					
BUILDING 645 ANNUAL REPORT 2008-2009 DEEP WELL GROUNDWATER ELEVATIONS-MARCH 2009										DESIGNED BY	BR	5/7/09	CHECKED BY	BR	5/7/09	REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE
										DRAWN BY	TR	5/7/09	APPROVED BY	MP	5/7/09						
SCALE: AS SHOWN										SIZE: B											
DELIVERY ORDER NO.																					
CONSTR. CONTRACT NO.																					
NAVFAC DRAWING NO.																					
SHEET I.D.																					
FIGURE 6																					

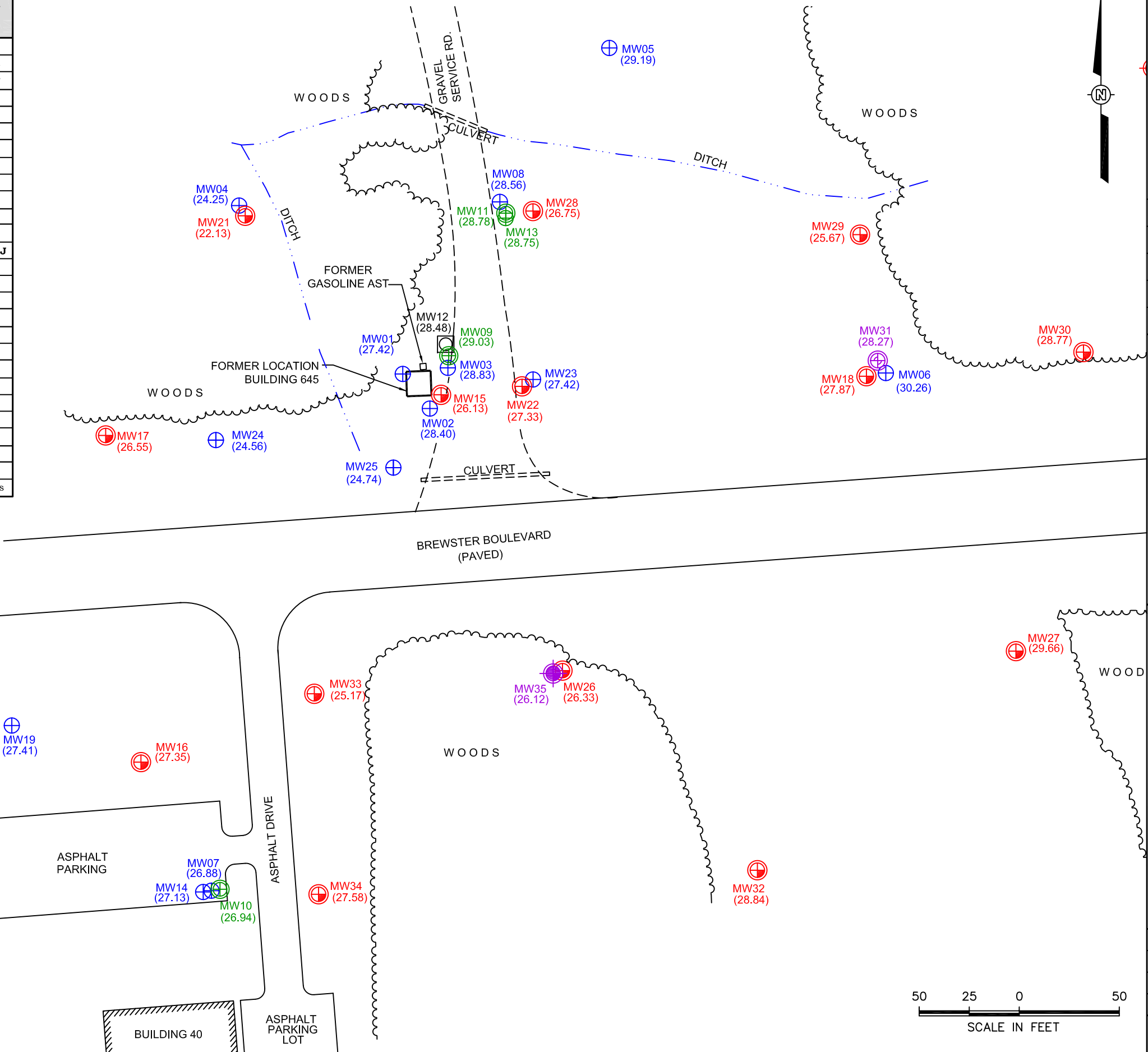
File: N:\T.Richardson\Government\Camp Lejeune\Site 645\Figure 7 thru 10_2008-2009_GW Results.dwg
Plot Date/Time: May 11, 2009 - 9:19am
Plotted By: thomas.richardson

Xref: 20090508095321879_Page_1.tif

Contaminant of Concern			Chloroform	1,2-Dichloroethane	All Other 601 Analytes
Well ID	Sample ID				
UST645-MW01	UST645-MW01	10/14/2008	<1.0	<1.0	BQL
		3/2/2009	<1.0	<1.0	BQL
UST645-MW02	UST645-MW02	10/14/2008	<2.0	<2.0	15.7
		3/2/2009	0.39 J	<1.0	BQL
UST645-MW03	UST645-MW03	10/16/2008	<1.0	<1.0	BQL
		3/2/2009	<1.0	<1.0	BQL
UST645-MW04	UST645-MW04	10/16/2008	<1.0	<1.0	BQL
		3/4/2009	<1.0	<1.0	BQL
UST645-MW05	UST645-MW05	10/16/2008	<1.0	<1.0	BQL
		2/27/2009	<1.0	<1.0	BQL
UST645-MW06	UST645-MW06	10/15/2008	<1.0	<1.0	BQL
		2/27/2009	<1.0	<1.0	BQL
UST645-MW07	UST645-MW07	10/16/2008	<1.0	<1.0	0.68 J
		3/4/2009	<1.0	<1.0	BQL
UST645-MW08	UST645-MW08	10/15/2008	<1.0	<1.0	BQL
		2/27/2009	<1.0	<1.0	BQL
UST645-MW14	UST645-MW14	10/16/2008	<1.0	<1.0	BQL
		3/4/2009	<1.0	<1.0	BQL
UST645-MW19	UST645-MW19	10/15/2008	<1.0	<1.0	BQL
		3/4/2009	<1.0	<1.0	BQL
UST645-MW23	UST645-MW23	10/15/2008	<1.0	<1.0	BQL
		3/2/2009	<1.0	<1.0	BQL
UST645-MW24	UST645-MW24	NS	NS	NS	NS
		3/2/2009	<1.0	<1.0	BQL
UST645-MW25	UST645-MW25	10/14/2008	<1.0	<1.0	BQL
		3/5/2009	<1.0	<1.0	BQL
2L Standard (ug/l)			70	0.38	Varies

- All results reported in ug/l; ug/l-micrograms per liter
- J - Estimated concentration; below calibration range and above MDL.
- NS - not sampled
- BQL - Below Quantitation Limits (Method Detection Limit (MDL).
- Bold - Detected concentration.

LEGEND		
EXISTING	NEW	DESCRIPTION
		BUILDING
		SHALLOW ZONE WELL (DEPTH <40')
		INTERMEDIATE ZONE WELL (DEPTH >40' - <60')
		DEEP ZONE WELL (DEPTH >60' - <90')
		DEEP ZONE WELL (DEPTH >90')
		PUMPING WELL
()		TOP OF CASING ELEVATION IN FEET (NGVD 88)*



PROJECT NO. 125709		DESIGNED BY		CHECKED BY		APPROVED BY		REVISIONS	
BR		5/8/09		5/8/09		5/8/09		5/8/09	
TR		5/8/09		5/8/09		5/8/09		5/8/09	
MP		5/8/09		5/8/09		5/8/09		5/8/09	
APPROVED BY		5/8/09		5/8/09		5/8/09		5/8/09	
DRAWN BY		5/8/09		5/8/09		5/8/09		5/8/09	
SHAW Environmental, Inc.		PROJECT NO. 125709		DESIGNED BY		CHECKED BY		APPROVED BY	
NAVAL FACILITIES ENGINEERING COMMAND		ATLANTIC DIVISION		BUILDING 645		ANNUAL REPORT 2008-2009		SHEET I.D.	
NAVAL STATION		NORFOLK, VIRGINIA		JACKSONVILLE N.C.		SHEET I.D.		FIGURE 7	
SCALE: AS SHOWN		DELIVERY ORDER NO.		CONSTR. CONTRACT NO.		NAVFAC DRAWING NO.		SHEET I.D.	
SITE MAP WITH OCTOBER 2008 AND MARCH 2009 GROUNDWATER RESULTS-EPA METHOD 601 SHALLOW CONDITIONS		SHEET I.D.		FIGURE 7		SHEET I.D.		FIGURE 7	

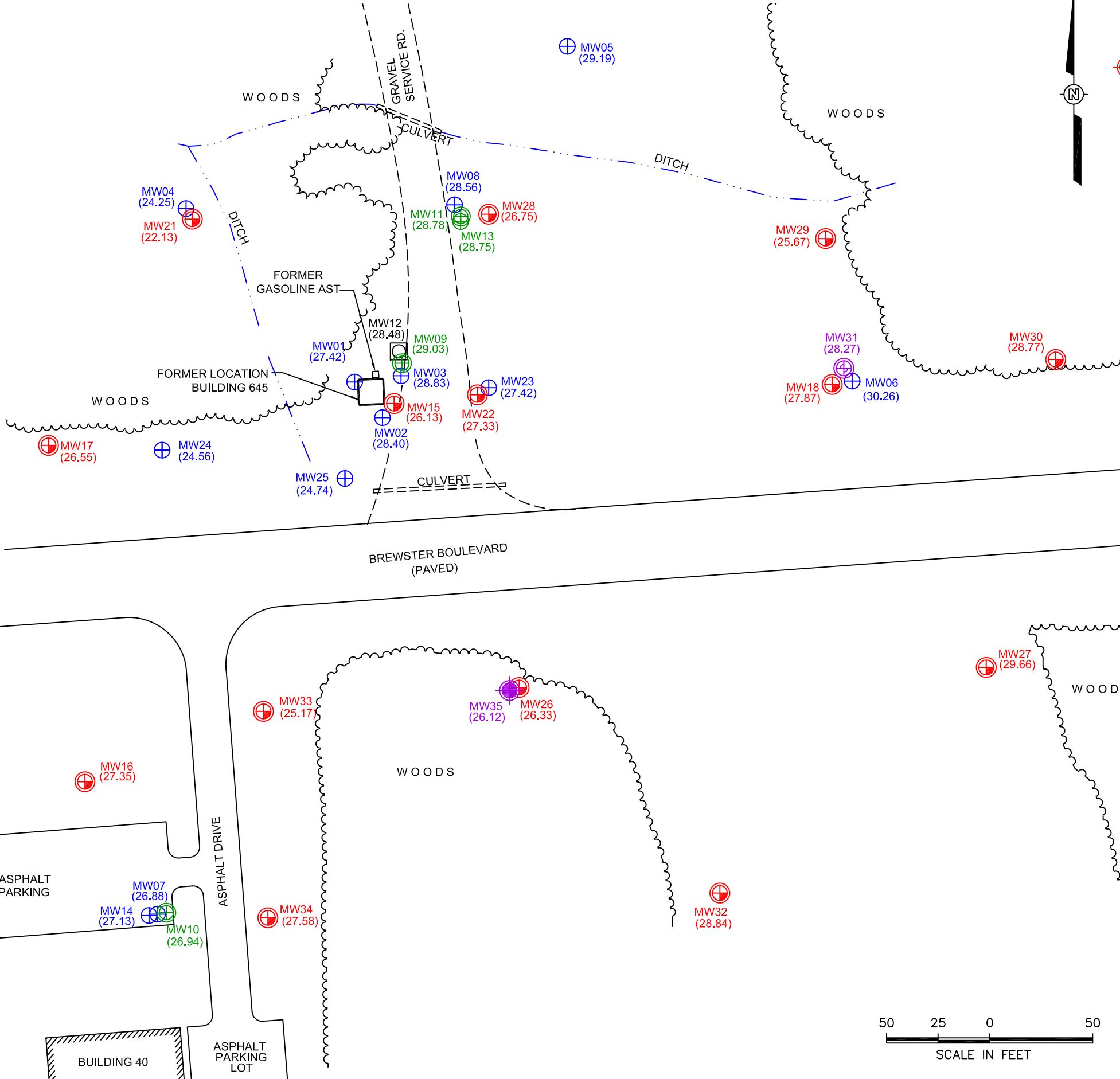
File: N:\T\Richardson\Government\Camp Lejeune\Site 645\Figure 7 thru 10_2008-2009_GW Results.dwg
Plot Date/Time: May 11, 2009 - 10:34am
Xref: Image : 20090508095321879_Page_1.tif
Plotted By: thomas.richardson

Contaminant of Concern		Date Collected	Chloroform	1,2-Dichloroethane	All Other 601 Analytes
Well ID	Sample ID				
UST645-MW09	UST645-MW09	10/14/2008	<1.0	<1.0	BQL
		2/27/2009	<1.0	<1.0	BQL
UST645-MW010	UST645-MW010	10/16/2008	<1.0	<1.0	BQL
		3/5/2009	<1.0	<1.0	BQL
UST645-MW11	UST645-MW11	10/15/2008	<1.0	<1.0	BQL
		2/27/2009	<1.0	<1.0	BQL
UST645-MW12	UST645-MW12	10/16/2008	<1.0	<1.0	BQL
		2/27/2009	<1.0	<1.0	BQL
UST645-MW13	UST645-MW13	10/15/2008	<1.0	<1.0	BQL
		2/27/2009	<1.0	<1.0	BQL
UST645-MW15	UST645-MW15	10/15/2008	<1.0	<1.0	BQL
		3/4/2009	<1.0	<1.0	BQL
UST645-MW16	UST645-MW16	10/15/2008	<1.0	<1.0	BQL
		3/4/2009	<1.0	<1.0	BQL
UST645-MW17	UST645-MW17	10/15/2008	<1.0	<1.0	BQL
		3/2/2009	<1.0	<1.0	BQL
UST645-MW18	UST645-MW18	10/15/2008	<1.0	<1.0	BQL
		2/27/2009	<1.0	<1.0	0.75 J
UST645-MW20	UST645-MW20	10/15/2008	<1.0	<1.0	BQL
		3/4/2009	<1.0	<1.0	0.78 J
UST645-MW21	UST645-MW21	10/16/2008	<1.0	<1.0	BQL
		3/4/2009	<1.0	<1.0	BQL
UST645-MW22	UST645-MW22	10/15/2008	<1.0	<1.0	BQL
		3/2/2009	<1.0	<1.0	BQL
UST645-MW26	UST645-MW26	10/15/2008	<1.0	<1.0	BQL
		3/2/2009	<1.0	<1.0	0.65 J
UST645-MW27	UST645-MW27	10/15/2008	<1.0	<1.0	BQL
		3/2/2009	<1.0	5.7	BQL
UST645-MW28	UST645-MW28	10/15/2008	<1.0	<1.0	BQL
		2/27/2009	<1.0	<1.0	BQL
UST645-MW29	UST645-MW29	10/15/2008	<1.0	<1.0	BQL
		2/27/2009	<1.0	<1.0	BQL
UST645-MW30	UST645-MW30	10/16/2008	<1.0	<1.0	0.68 J
		2/27/2009	<1.0	<1.0	BQL
UST645-MW31	UST645-MW31	10/15/2008	2.4	<1.0	1.26
		2/27/2009	14	<1.0	6.1
UST645-MW32	UST645-MW32	10/15/2008	<1.0	<1.0	BQL
		3/4/2009	<1.0	<1.0	BQL
2L Standard (ug/l)			70	0.38	Varies

- All results reported in ug/l; ug/l-micrograms per liter
- J - Estimated concentration; below calibration range and above MDL.
- NS - not sampled
- BQL - Below Quantitation Limits (Method Detection Limit (MDL).
- Bold - Detected concentration.
- Bold and shaded - detected concentration above 2L Standards.

LEGEND

EXISTING	NEW	DESCRIPTION
		BUILDING
		SHALLOW ZONE WELL (DEPTH <40')
		INTERMEDIATE ZONE WELL (DEPTH >40' - <60')
		DEEP ZONE WELL (DEPTH >60' - <90')
		DEEP ZONE WELL (DEPTH >90')
		PUMPING WELL
()		TOP OF CASING ELEVATION IN FEET (NGVD 88)*



DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND		 Shaw Environmental, Inc.		PROJECT NO. 125709											
NAVAL STATION		ATLANTIC DIVISION				DESIGNED BY		BR	CHECKED BY	BR	5/8/09	REV	DATE	BY	CHK'D	APPR'D	DESCRIPTION/ISSUE
NAVAL STATION		NORFOLK, VIRGINIA				DRAWN BY		TR	5/8/09	APPROVED BY	MP	5/8/09					
NAVAL STATION		JACKSONVILLE N.C.				BUILDING 645		ANNUAL REPORT 2008-2009									
SCALE:		AS SHOWN		SITE MAP WITH OCTOBER 2008 AND MARCH 2009 GROUNDWATER RESULTS-EPA METHOD 801 DEEP CONDITIONS		SIZE:		B									
DELIVERY ORDER NO.																	
CONSTR. CONTRACT NO.																	
NAVFAC DRAWING NO.																	
SHEET I.D.		FIGURE 8															

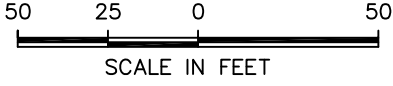
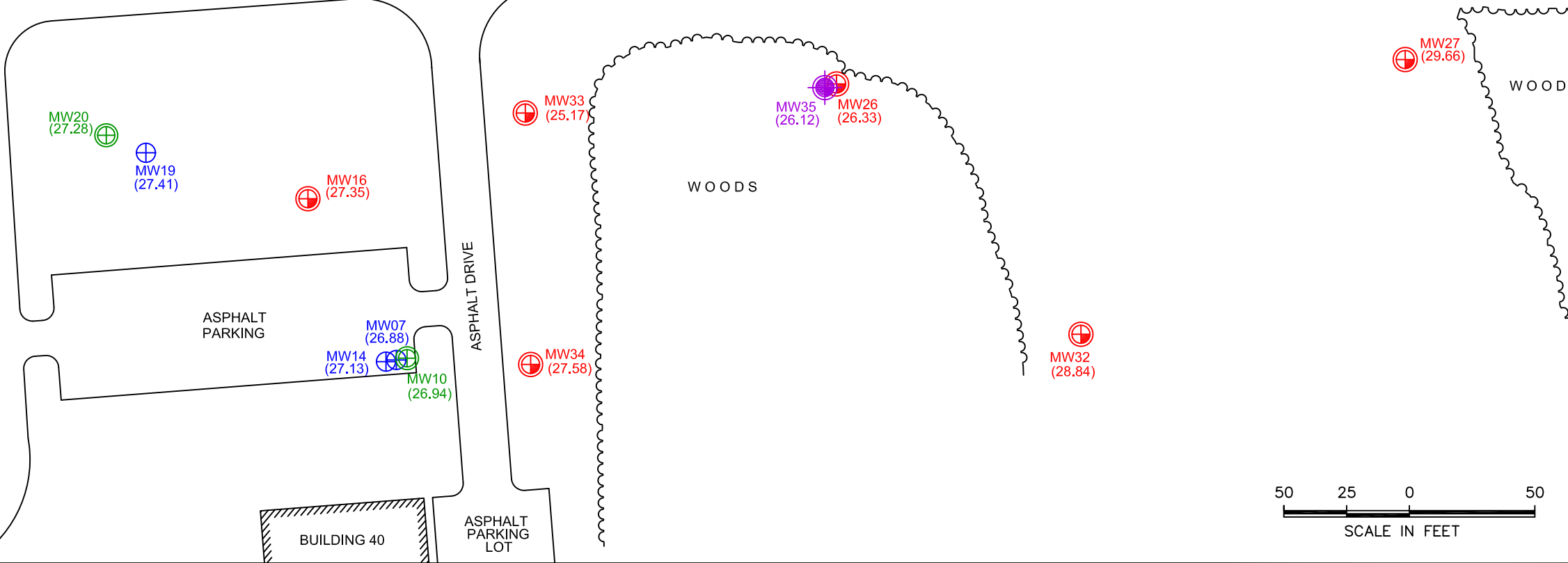
File: N:\Camp Lejeune _Jacksonville N.C\Site 645\Figure 7 thru 10_2008-2009_CW Results.dwg
Plot Date/Time: May 19, 2009 -- 1:38pm
Xref: 20090508095321879_Page_1.tif
Plotted By: thomas.richardson

Contaminant of Concern		Date Collected	Benzene	Ethylbenzene	Methyl-tert butyl ether (MTBE)	Toluene	Total Xylenes
Well ID	Sample ID						
UST645-MW09	UST645-MW09	10/14/2008	<1.0	<1.0	<1.0	0.42 J	<3.0
		2/27/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW010	UST645-MW010	10/16/2008	<1.0	<1.0	<1.0	0.44 J	<3.0
		3/5/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW11	UST645-MW11	10/15/2008	<1.0	<1.0	<1.0	<1.0	<3.0
		2/27/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW12	UST645-MW12	10/16/2008	<1.0	<1.0	<1.0	<1.0	<3.0
		2/27/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW13	UST645-MW13	10/15/2008	<1.0	<1.0	<1.0	0.38 J	<3.0
		2/27/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW15	UST645-MW15	10/15/2008	<1.0	<1.0	0.31 J	0.42 J	<3.0
		3/4/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW16	UST645-MW16	10/15/2008	<1.0	<1.0	<1.0	0.38 J	<3.0
		3/4/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW17	UST645-MW17	10/15/2008	<1.0	<1.0	<1.0	0.44J	<3.0
		3/2/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW18	UST645-MW18	10/15/2008	2.2	5.0	<1.0	6.4	3.3
		2/27/2009	1.4	1.8	<1.0	1.8	<3.0
UST645-MW20	UST645-MW20	10/15/2008	<1.0	<1.0	<1.0	0.43 J	<3.0
		3/4/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW21	UST645-MW21	10/16/2008	<1.0	<1.0	<1.0	<1.0	<3.0
		3/4/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW22	UST645-MW22	10/15/2008	<1.0	<1.0	<1.0	0.59 J	<3.0
		3/2/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW26	UST645-MW26	10/15/2008	521	191	<50	3,770	670
		3/2/2009	<1.0	<1.0	9.3	0.38 J	<3.0
UST645-MW27	UST645-MW27	10/15/2008	<1.0	<1.0	62.2	5.1	<3.0
		3/2/2009	1,030	<1.0	710	41.8	1.9 J
UST645-MW28	UST645-MW28	10/15/2008	<1.0	<1.0	<1.0	<1.0	<3.0
		2/27/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW29	UST645-MW29	10/15/2008	28.2	<1.0	1.5	<1.0	<3.0
		2/27/2009	4.6	<1.0	0.5 J	<1.0	<3.0
UST645-MW30	UST645-MW30	10/16/2008	<1.0	<1.0	<1.0	<1.0	<3.0
		2/27/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW31	UST645-MW31	10/15/2008	<1.0	<1.0	<1.0	<1.0	<3.0
		2/27/2009	<1.0	<1.0	<1.0	<1.0	<3.0
UST645-MW32	UST645-MW32	10/15/2008	<1.0	<1.0	<1.0	<1.0	<3.0
		3/4/2009	<1.0	<1.0	<1.0	<1.0	<3.0
2L Standard (ug/l)			1.0	550	200	1,000	530

- All results reported in ug/l; ug/l-micrograms per liter
- J - Estimated concentration; below calibration range and above MDL.
- NS - not sampled
- BQL - Below Quantitation Limits (Method Detection Limit (MDL).
- Bold - Detected concentration.
- Bold and shaded - detected concentration above 2L Standards.

LEGEND

EXISTING	NEW	DESCRIPTION
		BUILDING
		SHALLOW ZONE WELL (DEPTH <40')
		INTERMEDIATE ZONE WELL (DEPTH >40' - <60')
		DEEP ZONE WELL (DEPTH >60' - <90')
		DEEP ZONE WELL (DEPTH >90')
		PUMPING WELL
()		TOP OF CASING ELEVATION IN FEET (NGVD 88)*



DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND		PROJECT NO. 125709	
NAVAL STATION		ATLANTIC DIVISION		CHECKED BY	
MCR CAMP LEJEUNE		BUILDING 645		DATE	
ANNUAL REPORT 2008-2009		NORFOLK, VIRGINIA		REV	
SITE MAP WITH OCTOBER 2008 AND MARCH 2009 GROUNDWATER RESULTS-EPA METHOD 602 DEEP CONDITIONS		JACKSONVILLE N.C.		BY	
				DESCRIPTION/ISSUE	
				REVISIONS	
				CHK'D APP'VD	
				CONSTR. CONTRACT NO.	
				NAVFAC DRAWING NO.	
				SHEET I.D.	
				FIGURE 10	

APPENDIX A

HISTORICAL DATA

Historical Groundwater Data Table July 2007

Analytical Data for July 2007
Building 645 EPA Method 601

Contaminant of Concern →			Chloroform	1,2-Dichloroethane	All Other 601 Analytes
Well ID	Sample ID	Date Collected			
UST645-MW01	UST645-MW01	7/18/2007	<0.133	<0.104	BQL
UST645-MW02	UST645-MW02	7/18/2007	<0.133	<0.104	BQL
UST645-MW03	UST645-MW03	7/18/2007	<0.133	<0.104	BQL
UST645-MW04	UST645-MW04	7/18/2007	<0.133	<0.104	BQL
UST645-MW05	UST645-MW05	7/19/2007	<0.133	<0.104	BQL
UST645-MW06	UST645-MW06	7/19/2007	<0.133	<0.104	BQL
UST645-MW07	UST645-MW07	7/19/2007	<0.133	<0.104	BQL
UST645-MW08	UST645-MW08	7/17/2007	<0.133	<0.104	BQL
UST645-MW09	UST645-MW09	7/18/2007	<0.133	<0.104	BQL
UST645-MW10	UST645-MW10	7/19/2007	<0.133	<0.104	BQL
UST645-MW11	UST645-MW11	7/17/2007	<0.133	<0.104	BQL
UST645-MW12	UST645-MW12	7/18/2007	<0.133	<0.104	BQL
UST645-MW13	UST645-MW13	7/17/2007	<0.133	<0.104	BQL
UST645-MW14	UST645-MW14	7/19/2007	<0.133	<0.104	BQL
UST645-MW15	UST645-MW15	7/18/2007	<0.133	<0.104	BQL
UST645-MW16	UST645-MW16	7/19/2007	<0.133	<0.104	BQL
UST645-MW17	UST645-MW17	7/18/2007	<0.133	<0.104	BQL
UST645-MW18	UST645-MW18	7/19/2007	<0.133	<0.104	BQL
UST645-MW19	UST645-MW19	7/18/2007	<0.133	<0.104	BQL
UST645-MW20	UST645-MW20	7/18/2007	<0.133	<0.104	BQL
UST645-MW21	UST645-MW21	7/18/2007	<0.133	<0.104	BQL
UST645-MW22	UST645-MW22	7/18/2007	<0.133	<0.104	BQL
UST645-MW23	UST645-MW23	7/18/2007	<0.133	<0.104	BQL
UST645-MW24	UST645-MW24	7/18/2007	<0.133	<0.104	BQL
UST645-MW25	UST645-MW25	7/18/2007	<0.133	<0.104	BQL
UST645-MW26	UST645-MW26	7/19/2007	<0.266	<0.208	BQL
UST645-MW27	UST645-MW27	7/19/2007	<0.133	0.159J	BQL
UST645-MW28	UST645-MW28	7/17/2007	<0.133	<0.104	BQL
UST645-MW29	UST645-MW29	7/19/2007	<0.133	<0.104	BQL
UST645-MW30	UST645-MW30	7/19/2007	<0.133	<0.104	BQL
UST645-MW31	UST645-MW31	7/19/2007	0.964J	<0.104	BQL
UST645-MW32	UST645-MW32	7/19/2007	<0.133	<0.104	BQL
UST645-MW33	UST645-MW33	7/2007	NS	NS	NS
UST645-MW34	UST645-MW34	7/2007	NS	NS	NS
UST645-Duplicate1	UST645-Duplicate1	7/18/2007	<0.133	<0.104	BQL
2L Standard (µg/l)			70	0.38	Varies

- Duplicate sample from MW23 in July 2007.
- All results reported in µg/l; µg/L =micrograms per liter
- BQL = Below Quantitation Limit (Method Detection Limit (MDL)).
- J = Estimated concentration; below calibration range and above MDL.
- NS = Not Sampled; well installed 9/2007
- **Bold** results indicate a concentration above 2L Standards.

Analytical Method: EPA Method 601 - SHALLOW CONDITIONS

Contaminant of Concern →			All 601 Analytes
Well ID	Sample ID	Date Collected	
UST645-MW01	UST645-MW01	7/18/2007	BQL
UST645-MW02	UST645-MW02	7/18/2007	BQL
UST645-MW03	UST645-MW03	7/18/2007	BQL
UST645-MW04	UST645-MW04	7/18/2007	BQL
UST645-MW05	UST645-MW05	7/19/2007	BQL
UST645-MW06	UST645-MW06	7/19/2007	BQL
UST645-MW07	UST645-MW07	7/19/2007	BQL
UST645-MW08	UST645-MW08	7/17/2007	BQL
UST645-MW14	UST645-MW14	7/19/2007	BQL
UST645-MW19	UST645-MW19	7/18/2007	BQL
UST645-MW23	UST645-MW23	7/18/2007	BQL
UST645-MW24	UST645-MW24	7/18/2007	BQL
UST645-MW25	UST645-MW25	7/18/2007	BQL
UST645-Duplicate1	UST645-Duplicate1	7/18/2007	BQL
2L Standard (µg/l)			Varies

- Duplicate sample from MW23 in July 2007.
- All results reported in µg/l; µg/L =micrograms per liter
- BQL = Below Quantitation Limit (Method Detection Limit (MDL)).
- J = Estimated concentration; below calibration range and above MDL.
- **Bold** results indicate a concentration above 2L Standards.

Analytical Method: EPA Method 601 – DEEP CONDITIONS

Contaminant of Concern →			Chloroform	1,2-Dichloroethane	All Other 601 Analytes
Well ID	Sample ID	Date Collected			
UST645-MW09	UST645-MW09	7/18/2007	<0.133	<0.104	BQL
UST645-MW10	UST645-MW10	7/19/2007	<0.133	<0.104	BQL
UST645-MW11	UST645-MW11	7/17/2007	<0.133	<0.104	BQL
UST645-MW15	UST645-MW15	7/18/2007	<0.133	<0.104	BQL
UST645-MW16	UST645-MW16	7/19/2007	<0.133	<0.104	BQL
UST645-MW17	UST645-MW17	7/18/2007	<0.133	<0.104	BQL
UST645-MW18	UST645-MW18	7/19/2007	<0.133	<0.104	BQL
UST645-MW20	UST645-MW20	7/18/2007	<0.133	<0.104	BQL
UST645-MW21	UST645-MW21	7/18/2007	<0.133	<0.104	BQL
UST645-MW22	UST645-MW22	7/18/2007	<0.133	<0.104	BQL
UST645-MW26	UST645-MW26	7/19/2007	<0.266	<0.208	BQL
UST645-MW27	UST645-MW27	7/19/2007	<0.133	0.159J	BQL
UST645-MW28	UST645-MW28	7/17/2007	<0.133	<0.104	BQL
UST645-MW29	UST645-MW29	7/19/2007	<0.133	<0.104	BQL
UST645-MW30	UST645-MW30	7/19/2007	<0.133	<0.104	BQL
UST645-MW31	UST645-MW31	7/19/2007	0.964J	<0.104	BQL
UST645-MW32	UST645-MW32	7/19/2007	<0.133	<0.104	BQL
UST645-MW33	UST645-MW33	7/2007	NS	NS	NS
UST645-MW34	UST645-MW34	7/2007	NS	NS	NS
2L Standard (µg/l)			70	0.38	Varies

- All results reported in µg/l; µg/L =micrograms per liter
- BQL = Below Quantitation Limit (Method Detection Limit (MDL)).
- J = Estimated concentration; below calibration range and above MDL.
- NS = Not Sampled; well installed 9/2007
- **Bold** results indicate a concentration above 2L Standards.

Historical Groundwater Data Table 2007-2008

Analytical Data for July 2007 and January 2008
Building 645 EPA Method 602

Contaminant of Concern →			Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether (MTBE)	Toluene	Total (m/p, o) Xylenes
Well ID	Sample ID	Date Collected						
2L Standard (µg/l)			1	70	550	200	1,000	530
UST645-MW01	UST645-MW01	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		1/23/2008	<0.183	<0.229	15.1	<0.359	12.1	18.35
UST645-MW02	UST645-MW02	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		1/23/2008	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW03	UST645-MW03	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		1/23/2008	<0.183	<0.229	1.14	<0.359	<0.157	<1.065
UST645-MW04	UST645-MW04	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW05	UST645-MW05	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW06	UST645-MW06	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW07	UST645-MW07	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW08	UST645-MW08	7/17/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW09	UST645-MW09	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		1/23/2008	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW10	UST645-MW10	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW11	UST645-MW11	7/17/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW12	UST645-MW12	7/18/2007	<1.46	<1.83	146	<2.87	<1.26	361
		1/23/2008	4.65J	<1.83	117	<2.87	3.77J	351
UST645-MW13	UST645-MW13	7/17/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW14	UST645-MW14	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW15	UST645-MW15	7/18/2007	<0.183	<0.229	<0.181	2.34	<0.157	<1.065
		1/23/2008	<0.183	<0.229	<0.181	3.04	<0.157	<1.065
UST645-MW16	UST645-MW16	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW17	UST645-MW17	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW18	UST645-MW18	7/19/2007	7.20	<0.916	72.8	<1.44	<0.628	<4.26
		10/18/2007	6.94J	<1.836	55.0	<2.87	<1.26	<8.52
		1/23/2008	4.44	<0.458	37.3	<0.718	<0.314	1.45J
		4/17/2008	4.09	<0.458	45.9	<0.718	<0.314	<2.132
UST645-MW19	UST645-MW19	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW20	UST645-MW20	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW21	UST645-MW21	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		1/23/2008	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW22	UST645-MW22	7/18/2007	<0.183	<0.229	<0.181	5.07	<0.157	<1.065
		1/23/2008	<0.183	<0.229	<0.181	6.00	<0.157	<1.065
UST645-MW23	UST645-MW23	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		1/23/2008	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW24	UST645-MW24	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW25	UST645-MW25	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW26	UST645-MW26	7/19/2007	1,180	<45.8	50.8J	<71.8	3,900	<213.2
		10/18/2007	1,700	<36.6	287	<57.4	3,410	896
		4/17/2008	1,780	<36.6	318	<57.4	4,500	1,011
UST645-MW27	UST645-MW27	7/19/2007	25.3	<0.458	<0.362	52.2	<0.314	<2.132
		10/18/2007	101	<2.29	64.0	109	4.28J	<10.65
		4/17/2008	96.9	3.26J	<1.45	136	4.64J	<8.52

Contaminant of Concern →			Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether (MTBE)	Toluene	Total (m/p, o) Xylenes
Well ID	Sample ID	Date Collected						
2L Standard (µg/l)			1	70	550	200	1,000	530
UST645-MW28	UST645-MW28	7/17/2007	4.33	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW29	UST645-MW29	7/19/2007	22.4	<0.229	<0.181	<0.359	<0.157	<1.065
		10/18/2007	42.6	<0.229	<0.181	<0.359	0.406J	<1.065
		4/17/2008	32.1	<0.229	<0.181	1.11J	<0.157	<1.065
UST645-MW30	UST645-MW30	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		10/18/2007	<0.183	<0.229	<0.181	<0.359	0.406J	<1.065
		4/17/2008	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW31	UST645-MW31	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW32	UST645-MW32	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		10/18/2007	<0.183	<0.229	<0.181	<0.359	0.226J	<1.065
		4/18/2008	<0.183	<0.229	<0.181	<0.359	1.14	<1.065
UST645-MW33	UST645-MW33	10/19/2007	2.07	<0.229	<0.181	<0.359	0.265J	<1.065
UST645-MW34	UST645-MW34	10/19/2007	7.76	<0.229	<0.181	<0.359	0.341J	<1.065
Duplicate	Duplicate	7/18/2007	<0.183	<0.229	<0.181	4.93	<0.157	<1.065
		10/19/2007	2.17	<0.229	<0.181	<0.359	0.343J	<1.065
		1/23/2008	<0.183	<0.229	<0.181	6.28	<0.157	<1.065
		4/17/2008	87.2	<0.916	<0.724	129	2.56J	<4.26

- Duplicate sample UST645-Duplicate1 from MW23 in July 2007, USTG45MW-DUP from MW34 in Oct 2007, UST645-Duplicate from MW22 in Jan 2008, and UST645-Duplicate from MW27 in April 2008.
- All results reported in µg/l; µg/L =micrograms per liter
- BQL = Below Quantitation Limit (Method Detection Limit (MDL)).
- J = Estimated concentration; below calibration range and above MDL.
- NS = Not Sampled; well installed 9/2007
- **Bold** results indicate a concentration above 2L Standards.

Analytical Method: EPA Method 602 - SHALLOW CONDITIONS

Contaminant of Concern →			Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether (MTBE)	Toluene	Total (m/p, o) Xylenes
Well ID	Sample ID	Date Collected						
UST645-MW01	UST645-MW01	7/18/2007 1/23/2008	<0.183 <0.183	<0.229 <0.229	<0.181 15.1	<0.359 <0.359	<0.157 12.1	<1.065 18.35
UST645-MW02	UST645-MW02	7/18/2007 1/23/2008	<0.183 <0.183	<0.229 <0.229	<0.181 <0.181	<0.359 <0.359	<0.157 <0.157	<1.065 <1.065
UST645-MW03	UST645-MW03	7/18/2007 1/23/2008	<0.183 <0.183	<0.229 <0.229	<0.181 1.14	<0.359 <0.359	<0.157 <0.157	<1.065 <1.065
UST645-MW04	UST645-MW04	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW05	UST645-MW05	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW06	UST645-MW06	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW07	UST645-MW07	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW08	UST645-MW08	7/17/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW14	UST645-MW14	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW19	UST645-MW19	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW23	UST645-MW23	7/18/2007 1/23/2008	<0.183 <0.183	<0.229 <0.229	<0.181 <0.181	<0.359 <0.359	<0.157 <0.157	<1.065 <1.065
UST645-MW24	UST645-MW24	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW25	UST645-MW25	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
Duplicate	Duplicate	7/18/2007	<0.183	<0.229	<0.181	4.93	<0.157	<1.065
2L Standard (µg/l)			1	70	550	200	1,000	530

- Duplicate sample UST645-Duplicate1 from MW23 in July 2007.
- All results reported in µg/l; µg/L =micrograms per liter
- BQL = Below Quantitation Limit (Method Detection Limit (MDL)).
- J = Estimated concentration; below calibration range and above MDL.
- **Bold** results indicate a concentration above 2L Standards.

Analytical Method: EPA Method 602 - DEEP CONDITIONS

Contaminant of Concern →			Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether (MTBE)	Toluene	Total (m/p, o) Xylenes
Well ID	Sample ID	Date Collected						
UST645-MW09	UST645-MW09	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		1/23/2008	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW10	UST645-MW10	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW11	UST645-MW11	7/17/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW15	UST645-MW15	7/18/2007	<0.183	<0.229	<0.181	2.34	<0.157	<1.065
		1/23/2008	<0.183	<0.229	<0.181	3.04	<0.157	<1.065
UST645-MW16	UST645-MW16	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW17	UST645-MW17	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW18	UST645-MW18	7/19/2007	7.20	<0.916	72.8	<1.44	<0.628	<4.26
		10/18/2007	6.94J	<1.836	55.0	<2.87	<1.26	<8.52
		1/23/2008	4.44	<0.458	37.3	<0.718	<0.314	1.45J
		4/17/2008	4.09	<0.458	45.9	<0.718	<0.314	<2.132
UST645-MW20	UST645-MW20	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW21	UST645-MW21	7/18/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		1/23/2008	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW22	UST645-MW22	7/18/2007	<0.183	<0.229	<0.181	5.07	<0.157	<1.065
		1/23/2008	<0.183	<0.229	<0.181	6.00	<0.157	<1.065
UST645-MW26	UST645-MW26	7/19/2007	1,180	<45.8	50.8J	<71.8	3,900	<213.2
		10/18/2007	1,700	<36.6	287	<57.4	3,410	896
		4/17/2008	1,780	<36.6	318	<57.4	4,500	1,011
UST645-MW27	UST645-MW27	7/19/2007	25.3	<0.458	<0.362	52.2	<0.314	<2.132
		10/18/2007	101	<2.29	64.0	109	4.28J	<10.65
		4/17/2008	96.9	3.26J	<1.45	136	4.64J	<8.52
UST645-MW28	UST645-MW28	7/17/2007	4.33	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW29	UST645-MW29	7/19/2007	22.4	<0.229	<0.181	<0.359	<0.157	<1.065
		10/18/2007	42.6	<0.229	<0.181	<0.359	0.406J	<1.065
		4/17/2008	32.1	<0.229	<0.181	1.11J	<0.157	<1.065
UST645-MW30	UST645-MW30	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		10/18/2007	<0.183	<0.229	<0.181	<0.359	0.406J	<1.065
		4/17/2008	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW31	UST645-MW31	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
UST645-MW32	UST645-MW32	7/19/2007	<0.183	<0.229	<0.181	<0.359	<0.157	<1.065
		10/18/2007	<0.183	<0.229	<0.181	<0.359	0.226J	<1.065
		4/18/2008	<0.183	<0.229	<0.181	<0.359	1.14	<1.065
UST645-MW33	UST645-MW33	10/19/2007	2.07	<0.229	<0.181	<0.359	0.265J	<1.065
UST645-MW34	UST645-MW34	10/19/2007	7.76	<0.229	<0.181	<0.359	0.341J	<1.065
Duplicate	Duplicate	10/19/2007	2.17	<0.229	<0.181	<0.359	0.343J	<1.065
		1/23/2008	<0.183	<0.229	<0.181	6.28	<0.157	<1.065
		4/17/2008	87.2	<0.916	<0.724	129	2.56J	<4.26
2L Standard (µg/l)			1	70	550	200	1,000	530

- Duplicate sample USTG45MW-DUP from MW34 in Oct 2007, UST645-Duplicate from MW22 in Jan 2008, and UST645-Duplicate from MW27 in April 2008.
- All results reported in µg/l; µg/L =micrograms per liter
- BQL = Below Quantitation Limit (Method Detection Limit (MDL)).
- J = Estimated concentration; below calibration range and above MDL.
- NS = Not Sampled; well installed 9/2007
- **Bold** results indicate a concentration above 2L Standards.

Historical Groundwater Data Table 2007-2008

Analytical Data for October 2007 and January 2008
Building 645 EPA Method 625

Contaminant of Concern →			Bis(2-ethylhexyl) phthalate	Naphthalene	Phenol	Tentatively Identified Compounds (TICs)	All Other 625 Compounds
Well ID	Sample ID	Date Collected					
UST645-MW01	UST645-MW01	1/23/2008	<1.33	4.60J	<3.38	306.9	BQL
UST645-MW02	UST645-MW02	1/23/2008	<1.33	<1.08	<3.38	ND	BQL
UST645-MW03	UST645-MW03	1/23/2008	<1.33	<1.08	<3.38	ND	BQL
UST645-MW04	UST645-MW04	NS	NS	NS	NS	NS	NS
UST645-MW05	UST645-MW05	NS	NS	NS	NS	NS	NS
UST645-MW06	UST645-MW06	NS	NS	NS	NS	NS	NS
UST645-MW07	UST645-MW07	NS	NS	NS	NS	NS	NS
UST645-MW08	UST645-MW08	NS	NS	NS	NS	NS	NS
UST645-MW09	UST645-MW09	1/23/2008	<1.33	<1.08	<3.38	ND	BQL
UST645-MW10	UST645-MW10	NS	NS	NS	NS	NS	NS
UST645-MW11	UST645-MW11	NS	NS	NS	NS	NS	NS
UST645-MW12	UST645-MW12	1/23/2008	2.10J	60.4	<3.38	770.5	BQL
UST645-MW13	UST645-MW13	NS	NS	NS	NS	NS	NS
UST645-MW14	UST645-MW14	NS	NS	NS	NS	NS	NS
UST645-MW15	UST645-MW15	1/23/2008	<1.33	<1.08	<3.38	4.8	BQL
UST645-MW16	UST645-MW16	NS	NS	NS	NS	NS	NS
UST645-MW17	UST645-MW17	NS	NS	NS	NS	NS	NS
UST645-MW18	UST645-MW18	10/18/2007	<1.33	<1.08	<3.38	25.67	BQL
		1/23/2008	<1.33	<1.08	<3.38	5.97	BQL
UST645-MW19	UST645-MW19	NS	NS	NS	NS	NS	NS
UST645-MW20	UST645-MW20	NS	NS	NS	NS	NS	NS
UST645-MW21	UST645-MW21	1/23/2008	<1.33	<1.08	<3.38	5.34	BQL
UST645-MW22	UST645-MW22	1/23/2008	<1.33	<1.08	<3.38	ND	BQL
UST645-MW23	UST645-MW23	1/23/2008	4.20J	<1.08	<3.38	ND	BQL
UST645-MW24	UST645-MW24	NS	NS	NS	NS	NS	NS
UST645-MW25	UST645-MW25	NS	NS	NS	NS	NS	NS
UST645-MW26	UST645-MW26	10/18/2007	<1.33	<1.08	20.7	595.7	BQL
UST645-MW27	UST645-MW27	10/18/2007	<1.33	<1.08	<3.38	8.21	BQL
UST645-MW28	UST645-MW28	NS	NS	NS	NS	NS	NS
UST645-MW29	UST645-MW29	10/18/2007	<1.33	<1.08	<3.38	24.09	BQL
UST645-MW30	UST645-MW30	10/18/2007	<1.33	<1.08	<3.38	8.21	BQL
UST645-MW31	UST645-MW31	NS	NS	NS	NS	NS	NS
UST645-MW32	UST645-MW32	10/18/2007	<1.33	<1.08	<3.38	9.38	BQL
UST645-MW33	UST645-MW33	10/19/2007	<1.33	<1.08	<3.38	15.76	BQL
UST645-MW34	UST645-MW34	10/19/2007	<1.33	<1.08	<3.38	14.88	BQL
Duplicate	Duplicate	10/19/2007	<1.33	<1.08	<3.38	8.42	BQL
		1/23/2008	<1.33	<1.08	<3.38	ND	BQL
2L Standard (µg/l)			2.5	21	300	None Established	Varies

- Duplicate sample USTG45MW-DUP from MW34 in Oct 2007 and UST645-Duplicate from MW22 in Jan 2008.
- All results reported in µg/l; µg/L =micrograms per liter
- BQL = Below Quantitation Limit (Method Detection Limit (MDL)).
- J = Estimated concentration; below calibration range and above MDL.
- ND = None Detected
- NS = Not Sampled; well not part of scope of work.
- **Bold** results indicate a concentration above 2L Standards.

Analytical Method: EPA Method 625 – SHALLOW CONDITIONS

Contaminant of Concern →			Bis(2-ethylhexyl) phthalate	Naphthalene	Phenol	Tentatively Identified Compounds (TICs)	All Other 625 Compounds
Well ID	Sample ID	Date Collected					
UST645-MW01	UST645-MW01	1/23/2008	<1.33	4.60J	<3.38	306.9	BQL
UST645-MW02	UST645-MW02	1/23/2008	<1.33	<1.08	<3.38	ND	BQL
UST645-MW03	UST645-MW03	1/23/2008	<1.33	<1.08	<3.38	ND	BQL
UST645-MW04	UST645-MW04	NS	NS	NS	NS	NS	NS
UST645-MW05	UST645-MW05	NS	NS	NS	NS	NS	NS
UST645-MW06	UST645-MW06	NS	NS	NS	NS	NS	NS
UST645-MW07	UST645-MW07	NS	NS	NS	NS	NS	NS
UST645-MW08	UST645-MW08	NS	NS	NS	NS	NS	NS
UST645-MW14	UST645-MW14	NS	NS	NS	NS	NS	NS
UST645-MW19	UST645-MW19	NS	NS	NS	NS	NS	NS
UST645-MW23	UST645-MW23	1/23/2008	4.20J	<1.08	<3.38	ND	BQL
UST645-MW24	UST645-MW24	NS	NS	NS	NS	NS	NS
UST645-MW25	UST645-MW25	NS	NS	NS	NS	NS	NS
2L Standard (µg/l)			2.5	21	300	None Established	Varies

- All results reported in µg/l; µg/L =micrograms per liter
- BQL = Below Quantitation Limit (Method Detection Limit (MDL)).
- J = Estimated concentration; below calibration range and above MDL.
- ND = None Detected
- NS = Not Sampled; well not part of scope of work.
- **Bold** results indicate a concentration above 2L Standards.

Analytical Method: EPA Method 625 – DEEP CONDITIONS

Contaminant of Concern →			Bis(2-ethylhexyl) phthalate	Naphthalene	Phenol	Tentatively Identified Compounds (TICs)	All Other 625 Compounds
Well ID	Sample ID	Date Collected					
UST645-MW09	UST645-MW09	1/23/2008	<1.33	<1.08	<3.38	ND	BQL
UST645-MW10	UST645-MW10	NS	NS	NS	NS	NS	NS
UST645-MW11	UST645-MW11	NS	NS	NS	NS	NS	NS
UST645-MW15	UST645-MW15	1/23/2008	<1.33	<1.08	<3.38	4.8	BQL
UST645-MW16	UST645-MW16	NS	NS	NS	NS	NS	NS
UST645-MW17	UST645-MW17	NS	NS	NS	NS	NS	NS
UST645-MW18	UST645-MW18	10/18/2007	<1.33	<1.08	<3.38	25.67	BQL
		1/23/2008	<1.33	<1.08	<3.38	5.97	BQL
UST645-MW20	UST645-MW20	NS	NS	NS	NS	NS	NS
UST645-MW21	UST645-MW21	1/23/2008	<1.33	<1.08	<3.38	5.34	BQL
UST645-MW22	UST645-MW22	1/23/2008	<1.33	<1.08	<3.38	ND	BQL
UST645-MW26	UST645-MW26	10/18/2007	<1.33	<1.08	20.7	595.7	BQL
UST645-MW27	UST645-MW27	10/18/2007	<1.33	<1.08	<3.38	8.21	BQL
UST645-MW28	UST645-MW28	NS	NS	NS	NS	NS	NS
UST645-MW29	UST645-MW29	10/18/2007	<1.33	<1.08	<3.38	24.09	BQL
UST645-MW30	UST645-MW30	10/18/2007	<1.33	<1.08	<3.38	8.21	BQL
UST645-MW31	UST645-MW31	NS	NS	NS	NS	NS	NS
UST645-MW32	UST645-MW32	10/18/2007	<1.33	<1.08	<3.38	9.38	BQL
UST645-MW33	UST645-MW33	10/19/2007	<1.33	<1.08	<3.38	15.76	BQL
UST645-MW34	UST645-MW34	10/19/2007	<1.33	<1.08	<3.38	14.88	BQL
Duplicate	Duplicate	10/19/2007	<1.33	<1.08	<3.38	8.42	BQL
		1/23/2008	<1.33	<1.08	<3.38	ND	BQL
2L Standard (µg/l)			2.5	21	300	None Established	Varies

- Duplicate sample USTG45MW-DUP from MW34 in Oct 2007 and UST645-Duplicate from MW22 in Jan 2008.
- All results reported in µg/l; µg/L =micrograms per liter
- BQL = Below Quantitation Limit (Method Detection Limit (MDL)).
- J = Estimated concentration; below calibration range and above MDL.
- ND = None Detected
- NS = Not Sampled; well not part of scope of work.
- **Bold** results indicate a concentration above 2L Standards.

**Historical Groundwater Data Table
Analytical Data for March 2007
Building 645**

Parameter	NCGWQS	GCL	MW-18	MW-26	MW-27	MW-29	MW-30	MW-32
VOCs by EPA Method 601/602 (µg/L)								
All Compounds	Varies	Varies	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Benzene	1	5,000	3.97	2,060.0	<1.00	36.6	<1.00	<1.00
Diisopropyl ether (DIPE)	70	70,000	<1.00	<1.00	<1.00	<1.00	0.493J	80.4
Ethylbenzene	550	84,500	16.8	325J	<1.00	<1.00	<1.00	<1.00
Methyl-tert butyl ether (MTBE)	200	200,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1,000	257,500	0.520 J	13,900.0	<1.00	0.600J	<1.00	0.634J
<i>Xylenes (total)</i>	530	87,500	<2.00	436J	<2.00	<2.00	<2.00	<2.00
SVOCs by EPA Method 625 (µg/L)								
Bis(2-ethylhexyl)phthalate	2.5	2,500	NA	NA	NA	NA	NA	NA
Flourene	280	950	NA	NA	NA	NA	NA	NA
Naphthalene	21	15,500	NA	NA	NA	NA	NA	NA
Phenol	300	300,000	NA	NA	NA	NA	NA	NA
TICs (total)			NA	NA	NA	NA	NA	NA
All other Compounds	Varies	Varies	NA	NA	NA	NA	NA	NA
EPA 200.7 / SM 3030C (ug/L)								
Lead (EPA 6010B / SM 3030C) (ug/L)	15	15,000	NA	NA	NA	NA	NA	NA

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicated location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

Historical Groundwater Data Table
Analytical Data for January 2007
Building 645

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-12	MW-13	MW-16	MW-17	MW-18	MW-22	MW-23	MW-24	MW-25	MW-26	MW-27	MW-28	MW-29	MW-30	MW-31	MW-32
VOCs by EPA Method 601/602 (µg/L)																				
All Compounds	Varies	Varies	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Benzene	1	5,000	1,29 J	<1.00	<1.00	<1.00	<1.00	<1.00	14.8	<1.00	<1.00	<1.00	<1.00	3,260	12.9	2.92	21.3	<1.00	<1.00	<1.00
Diisopropyl ether (DIPE)	70	70,000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.386	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	550	84,500	45.0	<1.00	379.00	0.396 J	<1.00	<1.00	86.7	<1.00	0.241 J	<1.00	<1.00	330	0.435	<1.00	0.873	<1.00	<1.00	<1.00
Methyl-tert butyl ether (MTBE)	200	200,000	56.6	<5.0	57.1	1.88	<5.0	<5.0	7.36	<5.0	<5.0	<5.0	<5.0	BQL	39.1	<5.0	0.828	<5.0	<5.0	<5.0
Toluene	1,000	257,500	92.7	<1.00	57.1	1.88	<1.00	<2.00	3.94 J	0.187 J	0.187 J	<2.00	<2.00	7160	2.99	<2.00	3.80	<2.00	<2.00	<2.00
Xylenes (total)	530	87,500	92.7	<1.00	1,572.0	0.629 J	<2.00	<2.00	6.76 J	<2.00	<2.00	<2.00	<2.00	436J	0.560J	1.32	1.15J	<2.00	<2.00	<2.00
SVOCs by EPA Method 625 (µg/L)																				
Bis(2-ethylhexyl)phthalate	2.5	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flourene	280	950	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	21	15,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	300	300,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TICs (total)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
All other Compounds	Varies	Varies	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 200.7 / SM 3030C (µg/L)																				
Lead (EPA 6010B / SM 3030C) (µg/L)	15	15,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

mg/L - milligrams per liter

µg/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicated location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

Historical Groundwater Data Table
Analytical Data for July 2006 Sampling Event
Building 645

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-03	MW-09	MW-12	MW-15	MW-18	MW-21	MW-22	MW-23	Duplicate
VOCs by EPA Method 601/602 (µg/L)													
All Compounds	Varies	Varies	<2.00	<2.00	<2.00	<2.00	<20.0	<2.00	<2.00	<2.00	<2.00	<2.00	<0.500
Benzene	1	5,000	1.98	<1.00	0.668	<1.00	<10.0	<1.00	18.1	<1.00	<1.00	<1.00	<1.00
Diisopropyl ether (DIPE)	70	70,000	<1.00	<1.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	550	84,500	25.1	0.600	24.7	<1.00	69.8	<1.00	96.8	<1.00	<1.00	<1.00	<1.00
Methyl-tert butyl ether (MTBE)	200	200,000	<2.00	<2.00	<2.00	<2.00	<20.0	0.829	<2.00	<2.00	4.30	<2.00	<2.00
Toluene	1,000	257,500	25.6	0.812	1.93	1.20	15.1	0.809	6.88	0.930	1.43	0.851	0.734
m/p-Xylene			31.0	1.66	2.35	1.30	92.0	0.966	11.0	1.11	1.32	0.687	<2.00
o-Xylene			19.2	0.823	12.4	<2.00	237	<2.00	9.54	<2.00	<2.00	<2.00	<2.00
Xylenes (total)	530	87,500	50.2	2.483	14.75	1.30	329.0	0.966	20.54	1.11	1.32	<4.00	<4.00
SVOCs by EPA Method 625 (µg/L)													
Bis(2-ethylhexyl)phthalate	2.5	2,500	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Flourene	280	950	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	21	15,500	11.5	<10.0	11	<10.0	26.6	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Phenol	300	300,000	< 10.0	< 10.0	< 10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
TICs (total)			730.0	22.74	178.33	20.39	688.5	27.16	253.08	11.8	41.07	20.47	34.0
All other Compounds	Varies	Varies	< 10.0	< 10.0	< 10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EPA 200.7 / SM 3030C (ug/L)													
Lead (EPA 6010B / SM 3030C) (ug/L)	15	15,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicated location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

Historical Groundwater Data Table
Analytical Data for April 2006 Sampling Event
Building 645

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-03	MW-09	MW-12	MW-15	MW-18	MW-21	MW-22	MW-23	Duplicate
VOCs by EPA Method 6210D (µg/L)													
All Compounds	Varies	Varies	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<0.500
Benzene	1	5,000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Diisopropyl ether (DIPE)	70	70,000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	550	84,500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Methyl-tert butyl ether (MTBE)	200	200,000	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Toluene	1,000	257,500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
m/p-Xylene			<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
o-Xylene			<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Xylenes (total)	530	87,500	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
SVOCs by EPA Method 625 (µg/L)													
Bis(2-ethylhexyl)phthalate	2.5	2,500	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Flourene	280	950	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	21	15,500	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Phenol	300	300,000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
TICs (total)			<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
All other Compounds	Varies	Varies	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicated location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

Historical Groundwater Data Table
Analytical Data for January 2006 Sampling Event
Building 645

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-03	MW-09	MW-12	MW-15	MW-18	Duplicate	MW-21	MW-22	MW-23
VOCs by EPA Method 6210D (µg/L)													
All Compounds	Varies	Varies	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<0.500	<2.00	<2.00	<2.00
Benzene	1	5,000	<1.00	<1.00	<1.00	<1.00	7.84	<1.00	0.815	0.816	<1.00	<1.00	<1.00
Diisopropyl ether (DIPE)	70	70,000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ethylbenzene	550	84,500	<1.00	0.366	16.1	<1.00	212	<1.00	1.90	1.93	<1.00	<1.00	<1.00
Methyl-tert butyl ether (MTBE)	200	200,000	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	2.32	<2.00
Toluene	1,000	257,500	<1.00	<1.00	1.82	<1.00	123	<1.00	3.10	2.99	<1.00	<1.00	<1.00
m/p-Xylene			<2.00	<2.00	2.67	<2.00	296	<2.00	3.39	3.38	<2.00	<2.00	<2.00
o-Xylene			<2.00	<2.00	11.2	<2.00	642	<2.00	1.18	1.19	<2.00	<2.00	<2.00
Xylenes (total)	530	87,500	<4.00	<4.00	13.87	<4.00	938	<4.00	4.56	4.57	<4.00	<4.00	<4.00
SVOCs by EPA Method 625 (µg/L)													
Bis(2-ethylhexyl)phthalate	2.5	2,500	<10.0	2.70	<10.0	<10.0	3.90	<10.0	1.90	<10.0	<10.0	<10.0	<10.0
Flourene	280	950	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	21	15,500	<10.0	<10.0	6.1	<10.0	101	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Phenol	300	300,000	<10.0	<10.0	<10.0	<10.0	4.70	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
TICs (total)			<10.0	<10.0	126.53	<10.0	1983.5	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
All other Compounds	Varies	Varies	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicated location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION FROM 2008-2009 SAMPLING EVENTS



10/31/08

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-BLDG. 645

125709

Accutest Job Number: F60875

Sampling Dates: 10/14/08 - 10/15/08

Report to:

Shaw E & I, Inc.
500 E Main St Suite 1630
Norfolk, VA 23510
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **80**



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

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	5
2.1: F60875-1: UST645-MW01	6
2.2: F60875-2: UST645-MW02	8
2.3: F60875-3: UST645-MW06	10
2.4: F60875-4: UST645-MW08	12
2.5: F60875-5: UST645-MW09	14
2.6: F60875-6: UST645-MW11	16
2.7: F60875-7: UST645-MW13	18
2.8: F60875-8: UST645-MW15	20
2.9: F60875-9: UST645-MW17	22
2.10: F60875-10: UST645-MW18	24
2.11: F60875-11: UST645-MW19	26
2.12: F60875-12: UST645-MW20	28
2.13: F60875-13: UST645-MW22	30
2.14: F60875-14: UST645-MW23	32
2.15: F60875-15: UST645-MW25	34
2.16: F60875-16: UST645-MW26	36
2.17: F60875-17: UST645-MW26D	38
2.18: F60875-18: UST645-MW27	40
2.19: F60875-19: UST645-MW28	42
2.20: F60875-20: UST645-MW31	44
2.21: F60875-21: UST645-MW32	46
2.22: F60875-22: UST645-TRIP BLANK	48
Section 3: Misc. Forms	50
3.1: Chain of Custody	51
Section 4: GC/MS Volatiles - QC Data Summaries	56
4.1: Method Blank Summary	57
4.2: Blank Spike Summary	65
4.3: Matrix Spike/Matrix Spike Duplicate Summary	73



Sample Summary

Shaw E & I, Inc.

Job No: F60875

Camp Lejeune-BLDG. 645
Project No: 125709

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F60875-1	10/14/08	13:56 MM	10/16/08	AQ	Ground Water	UST645-MW01
F60875-2	10/14/08	14:05 MM	10/16/08	AQ	Ground Water	UST645-MW02
F60875-3	10/15/08	13:53 MM	10/16/08	AQ	Ground Water	UST645-MW06
F60875-4	10/15/08	10:30 MM	10/16/08	AQ	Ground Water	UST645-MW08
F60875-5	10/14/08	17:08 MM	10/16/08	AQ	Ground Water	UST645-MW09
F60875-6	10/15/08	09:45 MM	10/16/08	AQ	Ground Water	UST645-MW11
F60875-7	10/15/08	08:57 MM	10/16/08	AQ	Ground Water	UST645-MW13
F60875-8	10/15/08	11:00 MM	10/16/08	AQ	Ground Water	UST645-MW15
F60875-9	10/15/08	11:53 MM	10/16/08	AQ	Ground Water	UST645-MW17
F60875-10	10/15/08	14:37 MM	10/16/08	AQ	Ground Water	UST645-MW18
F60875-11	10/15/08	15:21 MM	10/16/08	AQ	Ground Water	UST645-MW19
F60875-12	10/15/08	13:45 MM	10/16/08	AQ	Ground Water	UST645-MW20
F60875-13	10/15/08	08:51 MM	10/16/08	AQ	Ground Water	UST645-MW22



Sample Summary
(continued)

Shaw E & I, Inc.

Job No: F60875

Camp Lejeune-BLDG. 645
Project No: 125709

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F60875-14	10/15/08	00:00 MM	10/16/08	AQ	Ground Water	UST645-MW23
F60875-15	10/14/08	15:00 MM	10/16/08	AQ	Ground Water	UST645-MW25
F60875-16	10/15/08	11:50 MM	10/16/08	AQ	Ground Water	UST645-MW26
F60875-17	10/15/08	11:50 MM	10/16/08	AQ	Ground Water	UST645-MW26D
F60875-18	10/15/08	14:15 MM	10/16/08	AQ	Ground Water	UST645-MW27
F60875-19	10/15/08	11:20 MM	10/16/08	AQ	Ground Water	UST645-MW28
F60875-20	10/15/08	15:25 MM	10/16/08	AQ	Ground Water	UST645-MW31
F60875-21	10/15/08	15:40 MM	10/16/08	AQ	Ground Water	UST645-MW32
F60875-22	10/15/08	00:00 MM	10/16/08	AQ	Trip Blank Water	UST645-TRIP BLANK



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	UST645-MW01	Date Sampled:	10/14/08
Lab Sample ID:	F60875-1	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0030844.D	1	10/24/08	MM	n/a	n/a	VM1268
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW01	Date Sampled:	10/14/08
Lab Sample ID:	F60875-1	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW02	Date Sampled:	10/14/08
Lab Sample ID:	F60875-2	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	M0030871.D	2	10/27/08	MM	n/a	n/a	VM1270
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	2.0	0.80	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.40	ug/l	
75-25-2	Bromoform	ND	2.0	0.66	ug/l	
108-90-7	Chlorobenzene	0.70	2.0	0.44	ug/l	J
75-00-3	Chloroethane	ND	4.0	0.96	ug/l	
67-66-3	Chloroform	ND	2.0	0.56	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10	2.0	ug/l	
56-23-5	Carbon tetrachloride	0.50	2.0	0.44	ug/l	J
75-34-3	1,1-Dichloroethane	ND	2.0	0.48	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	1.1	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.68	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.42	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	2.2	4.0	2.0	ug/l	J
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	0.40	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.42	ug/l	
541-73-1	m-Dichlorobenzene	1.5	2.0	0.46	ug/l	J
95-50-1	o-Dichlorobenzene	0.70	2.0	0.40	ug/l	J
106-46-7	p-Dichlorobenzene	1.7	2.0	0.44	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	0.90	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.42	ug/l	
100-41-4	Ethylbenzene	1.2	2.0	0.86	ug/l	J
74-83-9	Methyl bromide	ND	4.0	1.6	ug/l	
74-87-3	Methyl chloride	ND	4.0	1.2	ug/l	
75-09-2	Methylene chloride ^b	4.2	10	2.0	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	0.52	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.66	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.52	ug/l	
127-18-4	Tetrachloroethylene	2.9	2.0	0.44	ug/l	
108-88-3	Toluene	0.91	2.0	0.70	ug/l	J
79-01-6	Trichloroethylene	1.3	2.0	0.64	ug/l	J

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW02	Date Sampled:	10/14/08
Lab Sample ID:	F60875-2	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	4.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	6.0	2.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

(a) No sample available for reanalysis.

(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW06	Date Sampled:	10/15/08
Lab Sample ID:	F60875-3	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0030845.D	1	10/24/08	MM	n/a	n/a	VM1268
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW06	Date Sampled:	10/15/08
Lab Sample ID:	F60875-3	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW08	Date Sampled:	10/15/08
Lab Sample ID:	F60875-4	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0030846.D	1	10/24/08	MM	n/a	n/a	VM1268
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW08		
Lab Sample ID:	F60875-4	Date Sampled:	10/15/08
Matrix:	AQ - Ground Water	Date Received:	10/16/08
Method:	EPA 624	Percent Solids:	n/a
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

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

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

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

Report of Analysis

Client Sample ID:	UST645-MW09	Date Sampled:	10/14/08
Lab Sample ID:	F60875-5	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0030847.D	1	10/25/08	MM	n/a	n/a	VM1268
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.42	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW09	Date Sampled:	10/14/08
Lab Sample ID:	F60875-5	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

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

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

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

Report of Analysis

Client Sample ID:	UST645-MW11	Date Sampled:	10/15/08
Lab Sample ID:	F60875-6	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0030848.D	1	10/25/08	MM	n/a	n/a	VM1268
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW11	Date Sampled:	10/15/08
Lab Sample ID:	F60875-6	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW13	Date Sampled:	10/15/08
Lab Sample ID:	F60875-7	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0030849.D	1	10/25/08	MM	n/a	n/a	VM1268
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.38	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW13	Date Sampled:	10/15/08
Lab Sample ID:	F60875-7	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW15	Date Sampled:	10/15/08
Lab Sample ID:	F60875-8	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0030850.D	1	10/25/08	MM	n/a	n/a	VM1268
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.31	1.0	0.26	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.42	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW15	Date Sampled:	10/15/08
Lab Sample ID:	F60875-8	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

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

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

Report of Analysis

Page 1 of 2

Client Sample ID:	UST645-MW17	Date Sampled:	10/15/08
Lab Sample ID:	F60875-9	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0030851.D	1	10/25/08	MM	n/a	n/a	VM1268
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.44	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW17	Date Sampled:	10/15/08
Lab Sample ID:	F60875-9	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW18	Date Sampled:	10/15/08
Lab Sample ID:	F60875-10	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	M0030852.D	1	10/25/08	MM	n/a	n/a	VM1268
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	2.2	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	5.0	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	6.4	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-MW18
Lab Sample ID: F60875-10
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 10/15/08
Date Received: 10/16/08
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	3.3	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

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

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

Report of Analysis

Client Sample ID:	UST645-MW19	Date Sampled:	10/15/08
Lab Sample ID:	F60875-11	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0030853.D	1	10/25/08	MM	n/a	n/a	VM1268
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	1.1	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW19	Date Sampled:	10/15/08
Lab Sample ID:	F60875-11	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW20	Date Sampled:	10/15/08
Lab Sample ID:	F60875-12	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0030854.D	1	10/25/08	MM	n/a	n/a	VM1268
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.43	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-MW20
Lab Sample ID: F60875-12
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 10/15/08
Date Received: 10/16/08
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW22	Date Sampled:	10/15/08
Lab Sample ID:	F60875-13	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0030855.D	1	10/25/08	MM	n/a	n/a	VM1268
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.59	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-MW22
Lab Sample ID: F60875-13
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 10/15/08
Date Received: 10/16/08
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW23	Date Sampled:	10/15/08
Lab Sample ID:	F60875-14	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C058825.D	1	10/27/08	LD	n/a	n/a	VC2386
Run #2							

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW23		
Lab Sample ID:	F60875-14	Date Sampled:	10/15/08
Matrix:	AQ - Ground Water	Date Received:	10/16/08
Method:	EPA 624	Percent Solids:	n/a
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	107%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW25	Date Sampled:	10/14/08
Lab Sample ID:	F60875-15	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C058840.D	1	10/28/08	LD	n/a	n/a	VC2387
Run #2 ^a	C058826.D	50	10/27/08	LD	n/a	n/a	VC2386

	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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW25	Date Sampled:	10/14/08
Lab Sample ID:	F60875-15	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	97%	96%	76-127%
2037-26-5	Toluene-D8	106%	107%	86-112%
460-00-4	4-Bromofluorobenzene	104%	100%	84-120%

(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

Report of Analysis

Client Sample ID:	UST645-MW26	Date Sampled:	10/15/08
Lab Sample ID:	F60875-16	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C058829.D	50	10/27/08	LD	n/a	n/a	VC2386
Run #2							

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	521	50	20	ug/l	
75-27-4	Bromodichloromethane	ND	50	10	ug/l	
75-25-2	Bromoform	ND	50	17	ug/l	
108-90-7	Chlorobenzene	ND	50	11	ug/l	
75-00-3	Chloroethane	ND	100	24	ug/l	
67-66-3	Chloroform	ND	50	14	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	250	50	ug/l	
56-23-5	Carbon tetrachloride	ND	50	11	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	27	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	17	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	11	ug/l	
124-48-1	Dibromochloromethane	ND	50	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	11	ug/l	
541-73-1	m-Dichlorobenzene	ND	50	12	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	11	ug/l	
100-41-4	Ethylbenzene	191	50	22	ug/l	
74-83-9	Methyl bromide	ND	100	39	ug/l	
74-87-3	Methyl chloride	ND	100	31	ug/l	
75-09-2	Methylene chloride	ND	250	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	11	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	13	ug/l	
127-18-4	Tetrachloroethylene	ND	50	11	ug/l	
108-88-3	Toluene	3770	50	18	ug/l	
79-01-6	Trichloroethylene	ND	50	16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-MW26
Lab Sample ID: F60875-16
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 10/15/08
Date Received: 10/16/08
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
75-01-4	Vinyl chloride	ND	50	15	ug/l	
1330-20-7	Xylene (total)	670	150	58	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW26D	Date Sampled:	10/15/08
Lab Sample ID:	F60875-17	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C058846.D	50	10/28/08	LD	n/a	n/a	VC2387
Run #2							

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

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	513	50	20	ug/l	
75-27-4	Bromodichloromethane	ND	50	10	ug/l	
75-25-2	Bromoform	ND	50	17	ug/l	
108-90-7	Chlorobenzene	ND	50	11	ug/l	
75-00-3	Chloroethane	ND	100	24	ug/l	
67-66-3	Chloroform	ND	50	14	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	250	50	ug/l	
56-23-5	Carbon tetrachloride	ND	50	11	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	27	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	17	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	11	ug/l	
124-48-1	Dibromochloromethane	ND	50	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	11	ug/l	
541-73-1	m-Dichlorobenzene	ND	50	12	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	11	ug/l	
100-41-4	Ethylbenzene	198	50	22	ug/l	
74-83-9	Methyl bromide	ND	100	39	ug/l	
74-87-3	Methyl chloride	ND	100	31	ug/l	
75-09-2	Methylene chloride	ND	250	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	11	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	13	ug/l	
127-18-4	Tetrachloroethylene	ND	50	11	ug/l	
108-88-3	Toluene	4020	50	18	ug/l	
79-01-6	Trichloroethylene	ND	50	16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW26D	Date Sampled:	10/15/08
Lab Sample ID:	F60875-17	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
75-01-4	Vinyl chloride	ND	50	15	ug/l	
1330-20-7	Xylene (total)	655	150	58	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	102%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW27	Date Sampled:	10/15/08
Lab Sample ID:	F60875-18	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C058841.D	1	10/28/08	LD	n/a	n/a	VC2387
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	0.98	1.0	0.40	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.47	1.0	0.43	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	62.2	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	5.1	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW27	Date Sampled:	10/15/08
Lab Sample ID:	F60875-18	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW28	Date Sampled:	10/15/08
Lab Sample ID:	F60875-19	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C058842.D	1	10/28/08	LD	n/a	n/a	VC2387
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-MW28
Lab Sample ID: F60875-19
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 10/15/08
Date Received: 10/16/08
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW31	Date Sampled:	10/15/08
Lab Sample ID:	F60875-20	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C058843.D	1	10/28/08	LD	n/a	n/a	VC2387
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	0.40	ug/l	
75-27-4	Bromodichloromethane	0.83	1.0	0.20	ug/l	J
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	2.4	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	0.43	1.0	0.20	ug/l	J
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW31	Date Sampled:	10/15/08
Lab Sample ID:	F60875-20	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW32	Date Sampled:	10/15/08
Lab Sample ID:	F60875-21	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C058844.D	1	10/28/08	LD	n/a	n/a	VC2387
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW32	Date Sampled:	10/15/08
Lab Sample ID:	F60875-21	Date Received:	10/16/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-TRIP BLANK	Date Sampled:	10/15/08
Lab Sample ID:	F60875-22	Date Received:	10/16/08
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C058845.D	1	10/28/08	LD	n/a	n/a	VC2387
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.48	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-TRIP BLANK
Lab Sample ID: F60875-22
Matrix: AQ - Trip Blank Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 10/15/08
Date Received: 10/16/08
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	104%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

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

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

COC Number:
125709-645-101508-1



Shaw Environmental & Infrastructure, Inc.

F60875

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390										Receiving LAB: Accutest									
Project Name CAMP LEJEUNE - Bldg 645					Project Location CAMP LEJEUNE, NC					Analysis Desired									
Project Number 125709		Contact Mark Martin			P.O. Number 282002			Reviewed by											
Client Rep US NAVY - LANTDIV					Project Manager Joe Colella														
Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Voc 602-MTBE											
1	UST645-MW01	10/14/08	13:56		X	UST645-MW01	3	X											
2	UST645-MW02	10/14/08	14:05		X	UST645-MW02	3	X											
3	UST645-MW06	10/15/08	13:53		X	UST645-MW06	3	X											
4	UST645-MW08	10/15/08	10:30		X	UST645-MW08	3	X											
5	UST645-MW09	10/14/08	17:08		X	UST645-MW09	3	X											
6	UST645-MW11	1/0/00	9:45		X	UST645-MW11	3	X											
7	UST645-MW13	10/15/08	8:57		X	UST645-MW13	3	X											
8	UST645-MW15	10/15/08	11:00		X	UST645-MW15	3	X											
9	UST645-MW17	10/15/08	11:53		X	UST645-MW17	3	X											
10	UST645-MW18	10/15/08	14:37		X	UST645-MW18	3	X											

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 - 10		FedEx 8660 0186 0308	10/15/08	18:00	14 Day TAT
2				10.16.08	09:20	
3						

2-0

F60875: Chain of Custody

Page 1 of 5



Shaw Environmental & Infrastructure, Inc.

FG0875

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390											Receiving LAB: Accutest										
Project Name				Project Location				Analysis Desired													
CAMP LEJEUNE - Bldg 645				CAMP LEJEUNE, NC																	
Project Number		Contact		P.O. Number		Reviewed by															
125709		Mark Martin		282002																	
Client Rep				Project Manager																	
US NAVY - LANTDIV				Joe Colella																	
Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Voc 602-MTBE													
1	UST645-MW19	10/15/08	15:21		X	UST645-MW19	3	X													
2	UST645-MW20	10/15/08	13:45		X	UST645-MW20	3	X													
13	UST645-MW22	10/15/08	8:51		X	UST645-MW22	3	X													
14	UST645-MW23	10/15/08			X	UST645-MW23	3	X													
15	UST645-MW25	10/14/08	15:00		X	UST645-MW25	3	X													
16	UST645-MW26	10/15/08	11:50		X	UST645-MW26	3	X													
17	UST645-MW26D	10/15/08	11:50		X	UST645-MW26D	3	X													
18	UST645-MW27	10/15/08	14:15		X	UST645-MW27	3	X													
19	UST645-MW28	10/15/08	11:20		X	UST645-MW28	3	X													
20	UST645-MW31	10/15/08	15:25		X	UST645-MW31	3	X													

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks 14 Day TAT
1	1 -- 10	<i>[Signature]</i>	FedEx 8860 0186 0308	10/15/08	18:00	
2		<i>[Signature]</i>	<i>[Signature]</i>	10/16/08	8:20	
3						

25



#60875

Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

[illegible]

2.0

F60875: Chain of Custody

Page 3 of 5

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F60875 CLIENT: Shaw PROJECT: Camp Lejeune Bldg 645
 DATE/TIME RECEIVED: 10-16-08 09:20 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 20
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: 6660 0186 0108

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

MISC. INFORMATION

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

SUMMARY OF COMMENTS: Sample #2 (M002) received 2 vials broken

SAMPLE INFORMATION

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

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE E.T. 10-16-08 TECHNICIAN SIGNATURE/DATE Je 10-16-08 ASBD 12/17/07

F60875: Chain of Custody

Page 4 of 5

Job Change Order: F60875_10/21/2008

Requested Date:	10/21/2008	Received Date:	10/16/2008
Account Name:	Shaw E & I, Inc.	Due Date:	10/30/2008
Project Description:	Camp Lejeune-BLDG. 645	Deliverable:	COMMB
CSR:	HW	TAT (Days):	14

Sample #:
F60875-ALL

Change: Please change from V602STD to V6246012L per client request

Above Changes Per: Natasha Sullivan- SHAW

Date: 10/21/2008

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F60875: Chain of Custody
Page 5 of 5



GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 2

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1268-MB	M0030818.D	1	10/24/08	MM	n/a	n/a	VM1268

The QC reported here applies to the following samples:

Method: EPA 624

F60875-1, F60875-3, F60875-4, F60875-5, F60875-6, F60875-7, F60875-8, F60875-9, F60875-10, F60875-11, F60875-12, F60875-13

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1268-MB	M0030818.D	1	10/24/08	MM	n/a	n/a	VM1268

The QC reported here applies to the following samples: Method: EPA 624

F60875-1, F60875-3, F60875-4, F60875-5, F60875-6, F60875-7, F60875-8, F60875-9, F60875-10, F60875-11, F60875-12, F60875-13

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 87-116%
17060-07-0	1,2-Dichloroethane-D4	95% 76-127%
2037-26-5	Toluene-D8	103% 86-112%
460-00-4	4-Bromofluorobenzene	106% 84-120%

Method Blank Summary

Page 1 of 2

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1270-MB	M0030867.D	1	10/27/08	MM	n/a	n/a	VM1270

The QC reported here applies to the following samples:

Method: EPA 624

F60875-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1270-MB	M0030867.D	1	10/27/08	MM	n/a	n/a	VM1270

The QC reported here applies to the following samples: Method: EPA 624

F60875-2

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	100% 87-116%
17060-07-0	1,2-Dichloroethane-D4	97% 76-127%
2037-26-5	Toluene-D8	101% 86-112%
460-00-4	4-Bromofluorobenzene	102% 84-120%

Method Blank Summary

Page 1 of 2

Job Number: F60875

Account: ITVAVAB Shaw E & I, Inc.

Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2386-MB	C058812.D	1	10/27/08	LD	n/a	n/a	VC2386

The QC reported here applies to the following samples:

Method: EPA 624

F60875-14, F60875-16

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2386-MB	C058812.D	1	10/27/08	LD	n/a	n/a	VC2386

The QC reported here applies to the following samples: Method: EPA 624

F60875-14, F60875-16

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	102% 87-116%
17060-07-0	1,2-Dichloroethane-D4	98% 76-127%
2037-26-5	Toluene-D8	106% 86-112%
460-00-4	4-Bromofluorobenzene	105% 84-120%

Method Blank Summary

Page 1 of 2

Job Number: F60875

Account: ITVAVAB Shaw E & I, Inc.

Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2387-MB	C058839.D	1	10/28/08	LD	n/a	n/a	VC2387

The QC reported here applies to the following samples:

Method: EPA 624

F60875-15, F60875-17, F60875-18, F60875-19, F60875-20, F60875-21, F60875-22

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2387-MB	C058839.D	1	10/28/08	LD	n/a	n/a	VC2387

The QC reported here applies to the following samples: Method: EPA 624

F60875-15, F60875-17, F60875-18, F60875-19, F60875-20, F60875-21, F60875-22

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	102% 87-116%
17060-07-0	1,2-Dichloroethane-D4	97% 76-127%
2037-26-5	Toluene-D8	106% 86-112%
460-00-4	4-Bromofluorobenzene	103% 84-120%

Blank Spike Summary

Page 1 of 2

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1268-BS	M0030817.D 1		10/24/08	MM	n/a	n/a	VM1268

The QC reported here applies to the following samples:

Method: EPA 624

F60875-1, F60875-3, F60875-4, F60875-5, F60875-6, F60875-7, F60875-8, F60875-9, F60875-10, F60875-11, F60875-12, F60875-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	27.5	110	83-124
75-27-4	Bromodichloromethane	25	26.1	104	76-116
75-25-2	Bromoform	25	26.0	104	68-128
108-90-7	Chlorobenzene	25	28.4	114	87-115
75-00-3	Chloroethane	25	24.7	99	54-166
67-66-3	Chloroform	25	28.7	115	85-123
110-75-8	2-Chloroethyl vinyl ether	125	151	121	63-125
56-23-5	Carbon tetrachloride	25	30.9	124	74-139
75-34-3	1,1-Dichloroethane	25	30.3	121	82-127
75-35-4	1,1-Dichloroethylene	25	29.3	117	75-133
107-06-2	1,2-Dichloroethane	25	24.1	96	76-122
78-87-5	1,2-Dichloropropane	25	27.8	111	81-120
124-48-1	Dibromochloromethane	25	24.9	100	74-116
75-71-8	Dichlorodifluoromethane	25	16.3	65	34-158
156-59-2	cis-1,2-Dichloroethylene	25	26.3	105	81-114
10061-01-5	cis-1,3-Dichloropropene	25	27.8	111	83-119
541-73-1	m-Dichlorobenzene	25	27.7	111	86-115
95-50-1	o-Dichlorobenzene	25	26.8	107	85-115
106-46-7	p-Dichlorobenzene	25	27.0	108	87-113
156-60-5	trans-1,2-Dichloroethylene	25	28.9	116	82-126
10061-02-6	trans-1,3-Dichloropropene	25	29.2	117	87-123
100-41-4	Ethylbenzene	25	26.6	106	87-118
74-83-9	Methyl bromide	25	20.3	81	55-151
74-87-3	Methyl chloride	25	21.8	87	55-173
75-09-2	Methylene chloride	25	21.4	86	69-125
1634-04-4	Methyl Tert Butyl Ether	25	21.4	86	75-116
71-55-6	1,1,1-Trichloroethane	25	30.0	120	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	26.0	104	71-120
79-00-5	1,1,2-Trichloroethane	25	27.1	108	80-114
127-18-4	Tetrachloroethylene	25	28.1	112	80-131
108-88-3	Toluene	25	27.8	111	86-116
79-01-6	Trichloroethylene	25	28.8	115	85-124
75-69-4	Trichlorofluoromethane	25	24.0	96	66-156
75-01-4	Vinyl chloride	25	19.5	78	57-153
1330-20-7	Xylene (total)	75	84.8	113	86-120

Blank Spike Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1268-BS	M0030817.D	1	10/24/08	MM	n/a	n/a	VM1268

The QC reported here applies to the following samples: Method: EPA 624

F60875-1, F60875-3, F60875-4, F60875-5, F60875-6, F60875-7, F60875-8, F60875-9, F60875-10, F60875-11, F60875-12, F60875-13

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	87-116%
17060-07-0	1,2-Dichloroethane-D4	94%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	100%	84-120%

Blank Spike Summary

Page 1 of 2

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2386-BS	C058809.D	1	10/27/08	LD	n/a	n/a	VC2386

The QC reported here applies to the following samples:

Method: EPA 624

F60875-14, F60875-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.6	102	83-124
75-27-4	Bromodichloromethane	25	23.5	94	76-116
75-25-2	Bromoform	25	25.2	101	68-128
108-90-7	Chlorobenzene	25	26.1	104	87-115
75-00-3	Chloroethane	25	25.8	103	54-166
67-66-3	Chloroform	25	25.0	100	85-123
110-75-8	2-Chloroethyl vinyl ether	125	117	94	63-125
56-23-5	Carbon tetrachloride	25	27.7	111	74-139
75-34-3	1,1-Dichloroethane	25	25.9	104	82-127
75-35-4	1,1-Dichloroethylene	25	28.3	113	75-133
107-06-2	1,2-Dichloroethane	25	23.5	94	76-122
78-87-5	1,2-Dichloropropane	25	23.9	96	81-120
124-48-1	Dibromochloromethane	25	25.5	102	74-116
75-71-8	Dichlorodifluoromethane	25	19.0	76	34-158
156-59-2	cis-1,2-Dichloroethylene	25	23.8	95	81-114
10061-01-5	cis-1,3-Dichloropropene	25	25.4	102	83-119
541-73-1	m-Dichlorobenzene	25	26.1	104	86-115
95-50-1	o-Dichlorobenzene	25	25.6	102	85-115
106-46-7	p-Dichlorobenzene	25	25.7	103	87-113
156-60-5	trans-1,2-Dichloroethylene	25	26.1	104	82-126
10061-02-6	trans-1,3-Dichloropropene	25	27.3	109	87-123
100-41-4	Ethylbenzene	25	26.9	108	87-118
74-83-9	Methyl bromide	25	23.7	95	55-151
74-87-3	Methyl chloride	25	24.2	97	55-173
75-09-2	Methylene chloride	25	24.8	99	69-125
1634-04-4	Methyl Tert Butyl Ether	25	21.3	85	75-116
71-55-6	1,1,1-Trichloroethane	25	26.8	107	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.7	99	71-120
79-00-5	1,1,2-Trichloroethane	25	23.8	95	80-114
127-18-4	Tetrachloroethylene	25	27.3	109	80-131
108-88-3	Toluene	25	26.9	108	86-116
79-01-6	Trichloroethylene	25	24.0	96	85-124
75-69-4	Trichlorofluoromethane	25	27.9	112	66-156
75-01-4	Vinyl chloride	25	22.7	91	57-153
1330-20-7	Xylene (total)	75	81.1	108	86-120

Blank Spike Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2386-BS	C058809.D	1	10/27/08	LD	n/a	n/a	VC2386

The QC reported here applies to the following samples: Method: EPA 624

F60875-14, F60875-16

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	76-127%
2037-26-5	Toluene-D8	104%	86-112%
460-00-4	4-Bromofluorobenzene	98%	84-120%

Blank Spike Summary

Page 1 of 2

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1270-BS	M0030869.D 1		10/27/08	MM	n/a	n/a	VM1270

The QC reported here applies to the following samples:

Method: EPA 624

F60875-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	28.4	114	83-124
75-27-4	Bromodichloromethane	25	26.2	105	76-116
75-25-2	Bromoform	25	26.7	107	68-128
108-90-7	Chlorobenzene	25	28.8	115	87-115
75-00-3	Chloroethane	25	25.0	100	54-166
67-66-3	Chloroform	25	29.4	118	85-123
110-75-8	2-Chloroethyl vinyl ether	125	158	126*	63-125
56-23-5	Carbon tetrachloride	25	31.2	125	74-139
75-34-3	1,1-Dichloroethane	25	31.3	125	82-127
75-35-4	1,1-Dichloroethylene	25	31.0	124	75-133
107-06-2	1,2-Dichloroethane	25	25.2	101	76-122
78-87-5	1,2-Dichloropropane	25	28.6	114	81-120
124-48-1	Dibromochloromethane	25	24.5	98	74-116
75-71-8	Dichlorodifluoromethane	25	14.2	57	34-158
156-59-2	cis-1,2-Dichloroethylene	25	26.6	106	81-114
10061-01-5	cis-1,3-Dichloropropene	25	28.5	114	83-119
541-73-1	m-Dichlorobenzene	25	26.1	104	86-115
95-50-1	o-Dichlorobenzene	25	25.0	100	85-115
106-46-7	p-Dichlorobenzene	25	25.8	103	87-113
156-60-5	trans-1,2-Dichloroethylene	25	29.2	117	82-126
10061-02-6	trans-1,3-Dichloropropene	25	29.4	118	87-123
100-41-4	Ethylbenzene	25	27.0	108	87-118
74-83-9	Methyl bromide	25	20.3	81	55-151
74-87-3	Methyl chloride	25	22.1	88	55-173
75-09-2	Methylene chloride	25	21.9	88	69-125
1634-04-4	Methyl Tert Butyl Ether	25	21.6	86	75-116
71-55-6	1,1,1-Trichloroethane	25	30.5	122	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	26.6	106	71-120
79-00-5	1,1,2-Trichloroethane	25	26.9	108	80-114
127-18-4	Tetrachloroethylene	25	28.5	114	80-131
108-88-3	Toluene	25	28.7	115	86-116
79-01-6	Trichloroethylene	25	28.6	114	85-124
75-69-4	Trichlorofluoromethane	25	25.7	103	66-156
75-01-4	Vinyl chloride	25	20.9	84	57-153
1330-20-7	Xylene (total)	75	85.2	114	86-120

Blank Spike Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VM1270-BS	M0030869.D	1	10/27/08	MM	n/a	n/a	VM1270

The QC reported here applies to the following samples: Method: EPA 624

F60875-2

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

Blank Spike Summary

Page 1 of 2

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2387-BS	C058838.D	1	10/28/08	LD	n/a	n/a	VC2387

The QC reported here applies to the following samples:

Method: EPA 624

F60875-15, F60875-17, F60875-18, F60875-19, F60875-20, F60875-21, F60875-22

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.6	102	83-124
75-27-4	Bromodichloromethane	25	23.9	96	76-116
75-25-2	Bromoform	25	25.7	103	68-128
108-90-7	Chlorobenzene	25	26.2	105	87-115
75-00-3	Chloroethane	25	26.1	104	54-166
67-66-3	Chloroform	25	25.7	103	85-123
110-75-8	2-Chloroethyl vinyl ether	125	116	93	63-125
56-23-5	Carbon tetrachloride	25	28.5	114	74-139
75-34-3	1,1-Dichloroethane	25	26.7	107	82-127
75-35-4	1,1-Dichloroethylene	25	28.7	115	75-133
107-06-2	1,2-Dichloroethane	25	23.5	94	76-122
78-87-5	1,2-Dichloropropane	25	24.2	97	81-120
124-48-1	Dibromochloromethane	25	25.8	103	74-116
75-71-8	Dichlorodifluoromethane	25	18.2	73	34-158
156-59-2	cis-1,2-Dichloroethylene	25	24.3	97	81-114
10061-01-5	cis-1,3-Dichloropropene	25	25.1	100	83-119
541-73-1	m-Dichlorobenzene	25	25.7	103	86-115
95-50-1	o-Dichlorobenzene	25	25.6	102	85-115
106-46-7	p-Dichlorobenzene	25	25.7	103	87-113
156-60-5	trans-1,2-Dichloroethylene	25	26.8	107	82-126
10061-02-6	trans-1,3-Dichloropropene	25	27.6	110	87-123
100-41-4	Ethylbenzene	25	27.1	108	87-118
74-83-9	Methyl bromide	25	24.4	98	55-151
74-87-3	Methyl chloride	25	23.4	94	55-173
75-09-2	Methylene chloride	25	25.2	101	69-125
1634-04-4	Methyl Tert Butyl Ether	25	21.4	86	75-116
71-55-6	1,1,1-Trichloroethane	25	27.9	112	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.0	96	71-120
79-00-5	1,1,2-Trichloroethane	25	23.7	95	80-114
127-18-4	Tetrachloroethylene	25	28.1	112	80-131
108-88-3	Toluene	25	27.0	108	86-116
79-01-6	Trichloroethylene	25	24.3	97	85-124
75-69-4	Trichlorofluoromethane	25	27.8	111	66-156
75-01-4	Vinyl chloride	25	22.7	91	57-153
1330-20-7	Xylene (total)	75	82.7	110	86-120

Blank Spike Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC2387-BS	C058838.D	1	10/28/08	LD	n/a	n/a	VC2387

The QC reported here applies to the following samples: Method: EPA 624

F60875-15, F60875-17, F60875-18, F60875-19, F60875-20, F60875-21, F60875-22

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

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F60781-1MS	M0030842.D 1		10/24/08	MM	n/a	n/a	VM1268
F60781-1MSD	M0030843.D 1		10/24/08	MM	n/a	n/a	VM1268
F60781-1	M0030840.D 1		10/24/08	MM	n/a	n/a	VM1268

The QC reported here applies to the following samples:

Method: EPA 624

F60875-1, F60875-3, F60875-4, F60875-5, F60875-6, F60875-7, F60875-8, F60875-9, F60875-10, F60875-11, F60875-12, F60875-13

CAS No.	Compound	F60781-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.87	I	25	28.6	111	27.6	107	4	83-124/11
75-27-4	Bromodichloromethane	1.0 U		25	25.8	103	24.9	100	4	76-116/10
75-25-2	Bromoform	1.0 U		25	26.6	106	26.6	106	0	68-128/11
108-90-7	Chlorobenzene	1.0 U		25	28.0	112	27.4	110	2	87-115/9
75-00-3	Chloroethane	2.0 U		25	24.3	97	19.8	79	20	54-166/20
67-66-3	Chloroform	0.60	I	25	29.4	115	28.7	112	2	85-123/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
56-23-5	Carbon tetrachloride	1.0 U		25	31.3	125	30.1	120	4	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	30.2	121	28.6	114	5	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	31.5	126	27.0	108	15*	75-133/13
107-06-2	1,2-Dichloroethane	1.0 U		25	24.1	96	23.5	94	3	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	27.0	108	25.5	102	6	81-120/11
124-48-1	Dibromochloromethane	1.0 U		25	25.1	100	25.3	101	1	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U		25	16.0	64	14.9	60	7	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	26.8	107	26.8	107	0	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	27.2	109	25.6	102	6	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	26.6	106	26.0	104	2	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	25.4	102	24.8	99	2	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	27.0	108	26.6	106	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	28.6	114	26.9	108	6	82-126/10
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	27.8	111	27.6	110	1	87-123/10
100-41-4	Ethylbenzene	1.2		25	27.1	104	26.3	100	3	87-118/10
74-83-9	Methyl bromide	2.0 U		25	18.7	75	15.0	60	22*	55-151/21
74-87-3	Methyl chloride	2.0 U		25	21.5	86	19.3	77	11	55-173/22
75-09-2	Methylene chloride	5.0 U		25	22.6	90	18.3	73	21*	69-125/11
1634-04-4	Methyl Tert Butyl Ether	2.9		25	25.9	92	25.3	90	2	75-116/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	30.5	122	29.3	117	4	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	26.9	108	26.4	106	2	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	34.3	137*	33.4	134*	3	80-114/11
127-18-4	Tetrachloroethylene	1.0 U		25	26.9	108	26.8	107	0	80-131/12
108-88-3	Toluene	1.0 U		25	28.2	113	27.8	111	1	86-116/10
79-01-6	Trichloroethylene	0.37	I	25	27.8	110	27.0	107	3	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	25.2	101	22.0	88	14	66-156/15
75-01-4	Vinyl chloride	1.0 U		25	19.9	80	18.5	74	7	57-153/22
1330-20-7	Xylene (total)	53.4		75	133	106	130	102	2	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F60781-1MS	M0030842.D	1	10/24/08	MM	n/a	n/a	VM1268
F60781-1MSD	M0030843.D	1	10/24/08	MM	n/a	n/a	VM1268
F60781-1	M0030840.D	1	10/24/08	MM	n/a	n/a	VM1268

The QC reported here applies to the following samples: Method: EPA 624

F60875-1, F60875-3, F60875-4, F60875-5, F60875-6, F60875-7, F60875-8, F60875-9, F60875-10, F60875-11, F60875-12, F60875-13

CAS No.	Surrogate Recoveries	MS	MSD	F60781-1	Limits
1868-53-7	Dibromofluoromethane	99%	100%	97%	87-116%
17060-07-0	1,2-Dichloroethane-D4	94%	93%	95%	76-127%
2037-26-5	Toluene-D8	101%	103%	102%	86-112%
460-00-4	4-Bromofluorobenzene	98%	98%	92%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F60875-15MS	C058827.D	50	10/27/08	LD	n/a	n/a	VC2386
F60875-15MSD	C058828.D	50	10/27/08	LD	n/a	n/a	VC2386
F60875-15 ^a	C058826.D	50	10/27/08	LD	n/a	n/a	VC2386

The QC reported here applies to the following samples:

Method: EPA 624

F60875-14, F60875-16

CAS No.	Compound	F60875-15 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	1250	1210	97	1210	97	0	83-124/11
75-27-4	Bromodichloromethane	ND	1250	1090	87	1110	89	2	76-116/10
75-25-2	Bromoform	ND	1250	1270	102	1280	102	1	68-128/11
108-90-7	Chlorobenzene	ND	1250	1240	99	1230	98	1	87-115/9
75-00-3	Chloroethane	ND	1250	1170	94	1160	93	1	54-166/20
67-66-3	Chloroform	ND	1250	1220	98	1200	96	2	85-123/10
110-75-8	2-Chloroethyl vinyl ether	ND	6250	2880	46*	2620	42*	9	63-125/24
56-23-5	Carbon tetrachloride	ND	1250	1330	106	1350	108	1	74-139/13
75-34-3	1,1-Dichloroethane	ND	1250	1240	99	1240	99	0	82-127/10
75-35-4	1,1-Dichloroethylene	ND	1250	1330	106	1340	107	1	75-133/13
107-06-2	1,2-Dichloroethane	ND	1250	1100	88	1120	90	2	76-122/11
78-87-5	1,2-Dichloropropane	ND	1250	1110	89	1130	90	2	81-120/11
124-48-1	Dibromochloromethane	ND	1250	1220	98	1220	98	0	74-116/11
75-71-8	Dichlorodifluoromethane	ND	1250	845	68	854	68	1	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND	1250	1160	93	1150	92	1	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND	1250	1120	90	1170	94	4	83-119/10
541-73-1	m-Dichlorobenzene	ND	1250	1230	98	1260	101	2	86-115/9
95-50-1	o-Dichlorobenzene	ND	1250	1190	95	1250	100	5	85-115/9
106-46-7	p-Dichlorobenzene	ND	1250	1200	96	1240	99	3	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND	1250	1230	98	1250	100	2	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND	1250	1250	100	1290	103	3	87-123/10
100-41-4	Ethylbenzene	ND	1250	1250	100	1270	102	2	87-118/10
74-83-9	Methyl bromide	ND	1250	1000	80	1010	81	1	55-151/21
74-87-3	Methyl chloride	ND	1250	1070	86	1060	85	1	55-173/22
75-09-2	Methylene chloride	ND	1250	1210	97	1210	97	0	69-125/11
1634-04-4	Methyl Tert Butyl Ether	ND	1250	1030	82	1050	84	2	75-116/10
71-55-6	1,1,1-Trichloroethane	ND	1250	1300	104	1280	102	2	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	1250	1140	91	1220	98	7	71-120/11
79-00-5	1,1,2-Trichloroethane	ND	1250	1130	90	1160	93	3	80-114/11
127-18-4	Tetrachloroethylene	ND	1250	1320	106	1340	107	2	80-131/12
108-88-3	Toluene	ND	1250	1260	101	1280	102	2	86-116/10
79-01-6	Trichloroethylene	ND	1250	1150	92	1170	94	2	85-124/10
75-69-4	Trichlorofluoromethane	ND	1250	1260	101	1260	101	0	66-156/15
75-01-4	Vinyl chloride	ND	1250	1030	82	1020	82	1	57-153/22
1330-20-7	Xylene (total)	ND	3750	3830	102	3820	102	0	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F60875-15MS	C058827.D	50	10/27/08	LD	n/a	n/a	VC2386
F60875-15MSD	C058828.D	50	10/27/08	LD	n/a	n/a	VC2386
F60875-15 ^a	C058826.D	50	10/27/08	LD	n/a	n/a	VC2386

The QC reported here applies to the following samples: Method: EPA 624

F60875-14, F60875-16

CAS No.	Surrogate Recoveries	MS	MSD	F60875-15	Limits
1868-53-7	Dibromofluoromethane	103%	103%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	96%	76-127%
2037-26-5	Toluene-D8	101%	103%	107%	86-112%
460-00-4	4-Bromofluorobenzene	94%	97%	100%	84-120%

(a) Confirmation run.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F60781-3MS	M0030880.D 1		10/27/08	MM	n/a	n/a	VM1270
F60781-3MSD	M0030881.D 1		10/27/08	MM	n/a	n/a	VM1270
F60781-3	M0030870.D 1		10/27/08	MM	n/a	n/a	VM1270

The QC reported here applies to the following samples:

Method: EPA 624

F60875-2

CAS No.	Compound	F60781-3 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1.0 U		25	28.6	114	27.8	111	3	83-124/11
75-27-4	Bromodichloromethane	1.0 U		25	26.7	107	25.7	103	4	76-116/10
75-25-2	Bromoform	1.0 U		25	28.1	112	26.4	106	6	68-128/11
108-90-7	Chlorobenzene	1.0 U		25	28.7	115	27.8	111	3	87-115/9
75-00-3	Chloroethane	2.0 U		25	23.9	96	21.8	87	9	54-166/20
67-66-3	Chloroform	1.0 U		25	29.5	118	29.1	116	1	85-123/10
110-75-8	2-Chloroethyl vinyl ether	5.0 U		125	ND	0*	ND	0*	nc	63-125/24
56-23-5	Carbon tetrachloride	1.0 U		25	31.4	126	29.8	119	5	74-139/13
75-34-3	1,1-Dichloroethane	1.0 U		25	31.7	127	31.3	125	1	82-127/10
75-35-4	1,1-Dichloroethylene	1.0 U		25	30.0	120	28.5	114	5	75-133/13
107-06-2	1,2-Dichloroethane	1.0 U		25	25.8	103	24.9	100	4	76-122/11
78-87-5	1,2-Dichloropropane	1.0 U		25	29.6	118	28.1	112	5	81-120/11
124-48-1	Dibromochloromethane	1.0 U		25	25.2	101	24.4	98	3	74-116/11
75-71-8	Dichlorodifluoromethane	2.0 U		25	12.9	52	12.0	48	7	34-158/22
156-59-2	cis-1,2-Dichloroethylene	1.0 U		25	26.4	106	26.2	105	1	81-114/10
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	27.6	110	27.1	108	2	83-119/10
541-73-1	m-Dichlorobenzene	1.0 U		25	26.4	106	25.7	103	3	86-115/9
95-50-1	o-Dichlorobenzene	1.0 U		25	25.5	102	25.1	100	2	85-115/9
106-46-7	p-Dichlorobenzene	1.0 U		25	25.7	103	25.4	102	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	1.0 U		25	32.8	131*	29.1	116	12*	82-126/10
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	29.5	118	28.5	114	3	87-123/10
100-41-4	Ethylbenzene	1.0 U		25	27.1	108	26.0	104	4	87-118/10
74-83-9	Methyl bromide	2.0 U		25	19.6	78	18.8	75	4	55-151/21
74-87-3	Methyl chloride	2.0 U		25	19.4	78	18.6	74	4	55-173/22
75-09-2	Methylene chloride	5.0 U		25	26.8	107	23.0	92	15*	69-125/11
1634-04-4	Methyl Tert Butyl Ether	0.51	I	25	23.5	92	23.3	91	1	75-116/10
71-55-6	1,1,1-Trichloroethane	1.0 U		25	30.1	120	29.2	117	3	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	28.7	115	28.1	112	2	71-120/11
79-00-5	1,1,2-Trichloroethane	1.0 U		25	28.3	113	27.3	109	4	80-114/11
127-18-4	Tetrachloroethylene	1.0 U		25	28.2	113	26.0	104	8	80-131/12
108-88-3	Toluene	1.0 U		25	28.1	112	27.3	109	3	86-116/10
79-01-6	Trichloroethylene	1.0 U		25	28.6	114	28.2	113	1	85-124/10
75-69-4	Trichlorofluoromethane	2.0 U		25	23.4	94	20.8	83	12	66-156/15
75-01-4	Vinyl chloride	1.0 U		25	17.9	72	17.0	68	5	57-153/22
1330-20-7	Xylene (total)	3.0 U		75	86.0	115	82.0	109	5	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F60781-3MS	M0030880.D	1	10/27/08	MM	n/a	n/a	VM1270
F60781-3MSD	M0030881.D	1	10/27/08	MM	n/a	n/a	VM1270
F60781-3	M0030870.D	1	10/27/08	MM	n/a	n/a	VM1270

The QC reported here applies to the following samples: Method: EPA 624

F60875-2

CAS No.	Surrogate Recoveries	MS	MSD	F60781-3	Limits
1868-53-7	Dibromofluoromethane	97%	97%	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	96%	96%	96%	76-127%
2037-26-5	Toluene-D8	99%	99%	100%	86-112%
460-00-4	4-Bromofluorobenzene	98%	101%	103%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F60875-17MS	C058847.D	50	10/28/08	LD	n/a	n/a	VC2387
F60875-17MSD	C058848.D	50	10/28/08	LD	n/a	n/a	VC2387
F60875-17	C058846.D	50	10/28/08	LD	n/a	n/a	VC2387

The QC reported here applies to the following samples:

Method: EPA 624

F60875-15, F60875-17, F60875-18, F60875-19, F60875-20, F60875-21, F60875-22

CAS No.	Compound	F60875-17 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	513	1250	1820	105	1810	104	1	83-124/11
75-27-4	Bromodichloromethane	ND	1250	1190	95	1220	98	2	76-116/10
75-25-2	Bromoform	ND	1250	1270	102	1270	102	0	68-128/11
108-90-7	Chlorobenzene	ND	1250	1280	102	1290	103	1	87-115/9
75-00-3	Chloroethane	ND	1250	990	79	1210	97	20	54-166/20
67-66-3	Chloroform	ND	1250	1330	106	1260	101	5	85-123/10
110-75-8	2-Chloroethyl vinyl ether	ND	6250	5210	83	4960	79	5	63-125/24
56-23-5	Carbon tetrachloride	ND	1250	1450	116	1410	113	3	74-139/13
75-34-3	1,1-Dichloroethane	ND	1250	1350	108	1320	106	2	82-127/10
75-35-4	1,1-Dichloroethylene	ND	1250	1350	108	1380	110	2	75-133/13
107-06-2	1,2-Dichloroethane	ND	1250	1240	99	1230	98	1	76-122/11
78-87-5	1,2-Dichloropropane	ND	1250	1170	94	1200	96	3	81-120/11
124-48-1	Dibromochloromethane	ND	1250	1260	101	1240	99	2	74-116/11
75-71-8	Dichlorodifluoromethane	ND	1250	772	62	916	73	17	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND	1250	1160	93	1180	94	2	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND	1250	1240	99	1270	102	2	83-119/10
541-73-1	m-Dichlorobenzene	ND	1250	1270	102	1260	101	1	86-115/9
95-50-1	o-Dichlorobenzene	ND	1250	1260	101	1240	99	2	85-115/9
106-46-7	p-Dichlorobenzene	ND	1250	1240	99	1240	99	0	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND	1250	1280	102	1320	106	3	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND	1250	1380	110	1340	107	3	87-123/10
100-41-4	Ethylbenzene	198	1250	1530	107	1520	106	1	87-118/10
74-83-9	Methyl bromide	ND	1250	874	70	1120	90	25*	55-151/21
74-87-3	Methyl chloride	ND	1250	1010	81	1150	92	13	55-173/22
75-09-2	Methylene chloride	ND	1250	1300	104	1310	105	1	69-125/11
1634-04-4	Methyl Tert Butyl Ether	ND	1250	1040	83	1100	88	6	75-116/10
71-55-6	1,1,1-Trichloroethane	ND	1250	1420	114	1410	113	1	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	1250	1180	94	1220	98	3	71-120/11
79-00-5	1,1,2-Trichloroethane	ND	1250	1180	94	1190	95	1	80-114/11
127-18-4	Tetrachloroethylene	ND	1250	1360	109	1290	103	5	80-131/12
108-88-3	Toluene	4020	1250	5070	84* a	5000	78* a	1	86-116/10
79-01-6	Trichloroethylene	ND	1250	1250	100	1200	96	4	85-124/10
75-69-4	Trichlorofluoromethane	ND	1250	1250	100	1410	113	12	66-156/15
75-01-4	Vinyl chloride	ND	1250	906	72	1080	86	18	57-153/22
1330-20-7	Xylene (total)	655	3750	4850	112	4750	109	2	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F60875
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F60875-17MS	C058847.D	50	10/28/08	LD	n/a	n/a	VC2387
F60875-17MSD	C058848.D	50	10/28/08	LD	n/a	n/a	VC2387
F60875-17	C058846.D	50	10/28/08	LD	n/a	n/a	VC2387

The QC reported here applies to the following samples: Method: EPA 624

F60875-15, F60875-17, F60875-18, F60875-19, F60875-20, F60875-21, F60875-22

CAS No.	Surrogate Recoveries	MS	MSD	F60875-17	Limits
1868-53-7	Dibromofluoromethane	106%	103%	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	107%	106%	102%	76-127%
2037-26-5	Toluene-D8	100%	99%	104%	86-112%
460-00-4	4-Bromofluorobenzene	96%	93%	103%	84-120%

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



IT'S ALL IN THE CHEMISTRY

10/29/08

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-BLDG. 645

125709

Accutest Job Number: F60948

Sampling Dates: 10/15/08 - 10/16/08

Report to:

Shaw E & I, Inc.
500 E Main St Suite 1630
Norfolk, VA 23510
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **39**



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

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: F60948-1: UST645-MW03	5
2.2: F60948-2: UST645-MW04	7
2.3: F60948-3: UST645-MW05	9
2.4: F60948-4: UST645-MW07	11
2.5: F60948-5: UST645-MW10	13
2.6: F60948-6: UST645-MW12	15
2.7: F60948-7: UST645-MW14	17
2.8: F60948-8: UST645-MW16	19
2.9: F60948-9: UST645-MW21	21
2.10: F60948-10: UST645-MW29	23
2.11: F60948-11: UST645-MW30	25
2.12: F60948-12: UST645-TRIP BLANK	27
Section 3: Misc. Forms	29
3.1: Chain of Custody	30
Section 4: GC/MS Volatiles - QC Data Summaries	33
4.1: Method Blank Summary	34
4.2: Blank Spike Summary	36
4.3: Matrix Spike/Matrix Spike Duplicate Summary	38



Sample Summary

Shaw E & I, Inc.

Job No: F60948

Camp Lejeune-BLDG. 645
Project No: 125709

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F60948-1	10/16/08	16:45 MM	10/18/08	AQ	Ground Water	UST645-MW03
F60948-2	10/16/08	10:30 MM	10/18/08	AQ	Ground Water	UST645-MW04
F60948-3	10/16/08	13:30 MM	10/18/08	AQ	Ground Water	UST645-MW05
F60948-4	10/16/08	11:15 MM	10/18/08	AQ	Ground Water	UST645-MW07
F60948-5	10/16/08	10:08 MM	10/18/08	AQ	Ground Water	UST645-MW10
F60948-6	10/16/08	15:35 MM	10/18/08	AQ	Ground Water	UST645-MW12
F60948-7	10/16/08	11:59 MM	10/18/08	AQ	Ground Water	UST645-MW14
F60948-8	10/15/08	16:00 MM	10/18/08	AQ	Ground Water	UST645-MW16
F60948-9	10/16/08	00:00 MM	10/18/08	AQ	Ground Water	UST645-MW21
F60948-10	10/15/08	16:40 MM	10/18/08	AQ	Ground Water	UST645-MW29
F60948-11	10/16/08	09:00 MM	10/18/08	AQ	Ground Water	UST645-MW30
F60948-12	10/15/08	00:00 MM	10/18/08	AQ	Trip Blank Water	UST645-TRIP BLANK



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	UST645-MW03	Date Sampled:	10/16/08
Lab Sample ID:	F60948-1	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042284.D	1	10/28/08	KW	n/a	n/a	VJ2636
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.70	1.0	0.43	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.48	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW03	Date Sampled:	10/16/08
Lab Sample ID:	F60948-1	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	2.0	3.0	1.2	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW04	Date Sampled:	10/16/08
Lab Sample ID:	F60948-2	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042287.D	1	10/28/08	KW	n/a	n/a	VJ2636
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.52	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW04	Date Sampled:	10/16/08
Lab Sample ID:	F60948-2	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW05	Date Sampled:	10/16/08
Lab Sample ID:	F60948-3	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042288.D	1	10/28/08	KW	n/a	n/a	VJ2636
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW05	Date Sampled:	10/16/08
Lab Sample ID:	F60948-3	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW07	Date Sampled:	10/16/08
Lab Sample ID:	F60948-4	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042289.D	1	10/28/08	KW	n/a	n/a	VJ2636
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	0.43	1.0	0.40	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.68	2.0	0.61	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	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.72	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW07	Date Sampled:	10/16/08
Lab Sample ID:	F60948-4	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.5	3.0	1.2	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW10	Date Sampled:	10/16/08
Lab Sample ID:	F60948-5	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042290.D	1	10/29/08	KW	n/a	n/a	VJ2636
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.44	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW10	Date Sampled:	10/16/08
Lab Sample ID:	F60948-5	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW12	Date Sampled:	10/16/08
Lab Sample ID:	F60948-6	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042291.D	1	10/29/08	KW	n/a	n/a	VJ2636
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW12	Date Sampled:	10/16/08
Lab Sample ID:	F60948-6	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

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

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

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

Report of Analysis

Client Sample ID:	UST645-MW14	Date Sampled:	10/16/08
Lab Sample ID:	F60948-7	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042292.D	1	10/29/08	KW	n/a	n/a	VJ2636
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW14	Date Sampled:	10/16/08
Lab Sample ID:	F60948-7	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

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

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

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

Report of Analysis

Page 1 of 2

Client Sample ID:	UST645-MW16	Date Sampled:	10/15/08
Lab Sample ID:	F60948-8	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042293.D	1	10/29/08	KW	n/a	n/a	VJ2636
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.38	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW16	Date Sampled:	10/15/08
Lab Sample ID:	F60948-8	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Page 1 of 2

Client Sample ID:	UST645-MW21	Date Sampled:	10/16/08
Lab Sample ID:	F60948-9	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042294.D	1	10/29/08	KW	n/a	n/a	VJ2636
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW21	Date Sampled:	10/16/08
Lab Sample ID:	F60948-9	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	91%		76-127%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW29	Date Sampled:	10/15/08
Lab Sample ID:	F60948-10	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042295.D	1	10/29/08	KW	n/a	n/a	VJ2636
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	28.2	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.5	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW29	Date Sampled:	10/15/08
Lab Sample ID:	F60948-10	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	90%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW30	Date Sampled:	10/16/08
Lab Sample ID:	F60948-11	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042296.D	1	10/29/08	KW	n/a	n/a	VJ2636
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.68	2.0	0.61	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	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW30	Date Sampled:	10/16/08
Lab Sample ID:	F60948-11	Date Received:	10/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

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

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

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

Report of Analysis

Client Sample ID:	UST645-TRIP BLANK	Date Sampled:	10/15/08
Lab Sample ID:	F60948-12	Date Received:	10/18/08
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J042297.D	1	10/29/08	KW	n/a	n/a	VJ2636
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-TRIP BLANK
Lab Sample ID: F60948-12
Matrix: AQ - Trip Blank Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 10/15/08
Date Received: 10/18/08
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

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

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

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

COC Number:
125709-645-101708



Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

F60948

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390								Receiving LAB: Accutest	
Project Name				Project Location				Analysis Desired	
CAMP LEJEUNE - Bldg 645				CAMP LEJEUNE, NC					
Project Number		Contact		P.O. Number		Reviewed by			
125709		Mark Martin		282002					
Client Rep				Project Manager					
US NAVY - LANTDIV				Joe Colella					
Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Voc 602+MTBE	
①	UST645-MW03	10/16/08	16:45		X	UST645-MW03	3	X	
②	UST645-MW04	10/16/08	10:30		X	UST645-MW04	3	X	
③	UST645-MW05	10/16/08	13:30		X	UST645-MW05	3	X	
④	UST645-MW07	10/16/08	11:15		X	UST645-MW07	3	X	
⑤	UST645-MW10	10/16/08	10:08		X	UST645-MW10	3	X	
⑥	UST645-MW12	10/16/08	15:35		X	UST645-MW12	3	X	
⑦	UST645-MW14	10/16/08	11:59		X	UST645-MW14	3	X	
⑧	UST645-MW16	10/15/08	16:00		X	UST645-MW16	3	X	
⑨	UST645-MW21	10/16/08	—		X	UST645-MW21	3	X	
⑩	UST645-MW29	10/15/08	16:40		X	UST645-MW29	3	X	
⑪	UST645-MW30	10/16/08	9:00		X	UST645-MW30	3	X	
⑫	UST645-TripBlank	10/15/08	—		X	Trip Blank	3	X	

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 -- 12	<i>[Signature]</i>	FedEx 8660 0186 2219	10/17/08	18:00	14 Day TAT
2		EX	<i>[Signature]</i>	10-18-08	10:20	2-0
3						

F60948: Chain of Custody

Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F60948
 DATE/TIME RECEIVED: 10-18-08 10:20
 METHOD OF DELIVERY: FEDEX UPS
 AIRBILL NUMBERS: 8660 0186 2219

CLIENT: SHAW PROJECT: CAMP LEJEUNE - BLDG 64S
 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.0
 ACCUTEST COURIER GREYHOUND DELIVERY OTHER

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

MISC. INFORMATION

NUMBER OF ENCORES ? _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____

SUMMARY OF COMMENTS: ONLY SAMPLES 2,3,4 HAVE TIME ON LABELS

SAMPLE INFORMATION

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

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE 10-18-08 TECHNICIAN SIGNATURE/DATE ET-10-18-08 ASBD 12/17/07

F60948: Chain of Custody

Page 2 of 3

Job Change Order: F60948_10/21/2008

Requested Date:	10/21/2008	Received Date:	10/18/2008
Account Name:	Shaw E & I, Inc.	Due Date:	11/3/2008
Project Description:	Camp Lejeune-BLDG. 645	Deliverable:	COMMB
CSR:	HW	TAT (Days):	14

Sample #:
F60948-ALL

Change: Please change samples from V602STD to V6246012L
per client request

Above Changes Per: Natasha Sullivan- SHAW

Date: 10/21/2008

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

F60948: Chain of Custody
Page 3 of 3



GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 2

Job Number: F60948
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2636-MB	J042283.D	1	10/28/08	KW	n/a	n/a	VJ2636

The QC reported here applies to the following samples:

Method: EPA 624

F60948-1, F60948-2, F60948-3, F60948-4, F60948-5, F60948-6, F60948-7, F60948-8, F60948-9, F60948-10, F60948-11, F60948-12

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F60948
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2636-MB	J042283.D	1	10/28/08	KW	n/a	n/a	VJ2636

The QC reported here applies to the following samples: Method: EPA 624

F60948-1, F60948-2, F60948-3, F60948-4, F60948-5, F60948-6, F60948-7, F60948-8, F60948-9, F60948-10, F60948-11, F60948-12

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	102% 87-116%
17060-07-0	1,2-Dichloroethane-D4	98% 76-127%
2037-26-5	Toluene-D8	97% 86-112%
460-00-4	4-Bromofluorobenzene	102% 84-120%

Blank Spike Summary

Page 1 of 2

Job Number: F60948
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2636-BS	J042282.D	1	10/28/08	KW	n/a	n/a	VJ2636

The QC reported here applies to the following samples:

Method: EPA 624

F60948-1, F60948-2, F60948-3, F60948-4, F60948-5, F60948-6, F60948-7, F60948-8, F60948-9, F60948-10, F60948-11, F60948-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.8	107	83-124
75-27-4	Bromodichloromethane	25	24.1	96	76-116
75-25-2	Bromoform	25	23.1	92	68-128
108-90-7	Chlorobenzene	25	25.5	102	87-115
75-00-3	Chloroethane	25	24.0	96	54-166
67-66-3	Chloroform	25	25.9	104	85-123
110-75-8	2-Chloroethyl vinyl ether	125	165	132*	63-125
56-23-5	Carbon tetrachloride	25	27.4	110	74-139
75-34-3	1,1-Dichloroethane	25	27.3	109	82-127
75-35-4	1,1-Dichloroethylene	25	27.2	109	75-133
107-06-2	1,2-Dichloroethane	25	24.2	97	76-122
78-87-5	1,2-Dichloropropane	25	25.6	102	81-120
124-48-1	Dibromochloromethane	25	24.0	96	74-116
75-71-8	Dichlorodifluoromethane	25	13.9	56	34-158
156-59-2	cis-1,2-Dichloroethylene	25	24.9	100	81-114
10061-01-5	cis-1,3-Dichloropropene	25	25.5	102	83-119
541-73-1	m-Dichlorobenzene	25	25.4	102	86-115
95-50-1	o-Dichlorobenzene	25	25.0	100	85-115
106-46-7	p-Dichlorobenzene	25	24.7	99	87-113
156-60-5	trans-1,2-Dichloroethylene	25	27.4	110	82-126
10061-02-6	trans-1,3-Dichloropropene	25	26.1	104	87-123
100-41-4	Ethylbenzene	25	26.3	105	87-118
74-83-9	Methyl bromide	25	20.8	83	55-151
74-87-3	Methyl chloride	25	22.7	91	55-173
75-09-2	Methylene chloride	25	26.4	106	69-125
1634-04-4	Methyl Tert Butyl Ether	25	23.1	92	75-116
71-55-6	1,1,1-Trichloroethane	25	27.0	108	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	23.6	94	71-120
79-00-5	1,1,2-Trichloroethane	25	24.8	99	80-114
127-18-4	Tetrachloroethylene	25	26.1	104	80-131
108-88-3	Toluene	25	26.7	107	86-116
79-01-6	Trichloroethylene	25	26.8	107	85-124
75-69-4	Trichlorofluoromethane	25	22.7	91	66-156
75-01-4	Vinyl chloride	25	20.8	83	57-153
1330-20-7	Xylene (total)	75	78.9	105	86-120

Blank Spike Summary

Job Number: F60948
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ2636-BS	J042282.D	1	10/28/08	KW	n/a	n/a	VJ2636

The QC reported here applies to the following samples: Method: EPA 624

F60948-1, F60948-2, F60948-3, F60948-4, F60948-5, F60948-6, F60948-7, F60948-8, F60948-9, F60948-10, F60948-11, F60948-12

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

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F60948
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F60948-1MS	J042285.D	1	10/28/08	KW	n/a	n/a	VJ2636
F60948-1MSD	J042286.D	1	10/28/08	KW	n/a	n/a	VJ2636
F60948-1	J042284.D	1	10/28/08	KW	n/a	n/a	VJ2636

The QC reported here applies to the following samples:

Method: EPA 624

F60948-1, F60948-2, F60948-3, F60948-4, F60948-5, F60948-6, F60948-7, F60948-8, F60948-9, F60948-10, F60948-11, F60948-12

CAS No.	Compound	F60948-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	28.3	113	28.9	116	2	83-124/11
75-27-4	Bromodichloromethane	ND		25	25.3	101	26.1	104	3	76-116/10
75-25-2	Bromoform	ND		25	26.1	104	26.2	105	0	68-128/11
108-90-7	Chlorobenzene	ND		25	27.0	108	27.3	109	1	87-115/9
75-00-3	Chloroethane	ND		25	23.0	92	24.0	96	4	54-166/20
67-66-3	Chloroform	ND		25	27.7	111	27.9	112	1	85-123/10
110-75-8	2-Chloroethyl vinyl ether	ND		125	ND	0*	ND	0*	nc	63-125/24
56-23-5	Carbon tetrachloride	ND		25	29.0	116	29.0	116	0	74-139/13
75-34-3	1,1-Dichloroethane	ND		25	29.1	116	29.7	119	2	82-127/10
75-35-4	1,1-Dichloroethylene	ND		25	27.2	109	28.2	113	4	75-133/13
107-06-2	1,2-Dichloroethane	ND		25	25.7	103	26.3	105	2	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	27.0	108	27.5	110	2	81-120/11
124-48-1	Dibromochloromethane	ND		25	26.5	106	26.4	106	0	74-116/11
75-71-8	Dichlorodifluoromethane	ND		25	13.1	52	14.0	56	7	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND		25	27.2	109	27.2	109	0	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	26.9	108	27.3	109	1	83-119/10
541-73-1	m-Dichlorobenzene	ND		25	26.7	107	27.3	109	2	86-115/9
95-50-1	o-Dichlorobenzene	ND		25	26.5	106	27.0	108	2	85-115/9
106-46-7	p-Dichlorobenzene	ND		25	26.1	104	26.4	106	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND		25	28.8	115	29.0	116	1	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND		25	29.1	116	28.8	115	1	87-123/10
100-41-4	Ethylbenzene	0.70	J	25	28.4	111	28.8	112	1	87-118/10
74-83-9	Methyl bromide	ND		25	19.6	78	21.6	86	10	55-151/21
74-87-3	Methyl chloride	ND		25	18.1	72	20.2	81	11	55-173/22
75-09-2	Methylene chloride	ND		25	27.3	109	27.0	108	1	69-125/11
1634-04-4	Methyl Tert Butyl Ether	ND		25	24.6	98	25.1	100	2	75-116/10
71-55-6	1,1,1-Trichloroethane	ND		25	28.3	113	28.6	114	1	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	26.2	105	27.0	108	3	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	27.3	109	26.9	108	1	80-114/11
127-18-4	Tetrachloroethylene	ND		25	27.4	110	27.7	111	1	80-131/12
108-88-3	Toluene	0.48	J	25	29.2	115	29.2	115	0	86-116/10
79-01-6	Trichloroethylene	ND		25	28.0	112	28.2	113	1	85-124/10
75-69-4	Trichlorofluoromethane	ND		25	21.6	86	22.5	90	4	66-156/15
75-01-4	Vinyl chloride	ND		25	17.4	70	19.9	80	13	57-153/22
1330-20-7	Xylene (total)	2.0	J	75	87.0	113	87.4	114	0	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F60948
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F60948-1MS	J042285.D	1	10/28/08	KW	n/a	n/a	VJ2636
F60948-1MSD	J042286.D	1	10/28/08	KW	n/a	n/a	VJ2636
F60948-1	J042284.D	1	10/28/08	KW	n/a	n/a	VJ2636

The QC reported here applies to the following samples: Method: EPA 624

F60948-1, F60948-2, F60948-3, F60948-4, F60948-5, F60948-6, F60948-7, F60948-8, F60948-9, F60948-10, F60948-11, F60948-12

CAS No.	Surrogate Recoveries	MS	MSD	F60948-1	Limits
1868-53-7	Dibromofluoromethane	101%	100%	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	98%	98%	97%	76-127%
2037-26-5	Toluene-D8	99%	99%	96%	86-112%
460-00-4	4-Bromofluorobenzene	100%	100%	100%	84-120%



03/05/09

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-BLDG. 645

824603

Accutest Job Number: F63657

Sampling Date: 02/27/09

Report to:

Shaw E & I, Inc.
500 E Main St Suite 1630
Norfolk, VA 23510
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **50**



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

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	5
2.1: F63657-1: UST645-MW05	6
2.2: F63657-2: UST645-MW06	8
2.3: F63657-3: UST645-MW08	10
2.4: F63657-4: UST645-MW09	12
2.5: F63657-5: UST645-MW11	14
2.6: F63657-6: UST645-MW12	16
2.7: F63657-7: UST645-MW13	18
2.8: F63657-8: UST645-MW18	20
2.9: F63657-9: UST645-MW28	22
2.10: F63657-10: UST645-MW28D	24
2.11: F63657-11: UST645-MW29	26
2.12: F63657-12: UST645-MW30	28
2.13: F63657-13: UST645-MW31	30
2.14: F63657-14: UST645-TB-022709	32
Section 3: Misc. Forms	34
3.1: Chain of Custody	35
Section 4: GC/MS Volatiles - QC Data Summaries	38
4.1: Method Blank Summary	39
4.2: Blank Spike Summary	43
4.3: Matrix Spike/Matrix Spike Duplicate Summary	47



Sample Summary

Shaw E & I, Inc.

Job No: F63657

Camp Lejeune-BLDG. 645
Project No: 824603

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F63657-1	02/27/09	12:15 MP	02/28/09	AQ	Ground Water	UST645-MW05
F63657-2	02/27/09	14:10 MP	02/28/09	AQ	Ground Water	UST645-MW06
F63657-3	02/27/09	11:45 MP	02/28/09	AQ	Ground Water	UST645-MW08
F63657-4	02/27/09	14:30 MP	02/28/09	AQ	Ground Water	UST645-MW09
F63657-5	02/27/09	10:45 MP	02/28/09	AQ	Ground Water	UST645-MW11
F63657-6	02/27/09	15:30 MP	02/28/09	AQ	Ground Water	UST645-MW12
F63657-7	02/27/09	10:15 MP	02/28/09	AQ	Ground Water	UST645-MW13
F63657-8	02/27/09	14:45 MP	02/28/09	AQ	Ground Water	UST645-MW18
F63657-9	02/27/09	09:15 MP	02/28/09	AQ	Ground Water	UST645-MW28
F63657-10	02/27/09	09:15 MP	02/28/09	AQ	Ground Water	UST645-MW28D
F63657-11	02/27/09	13:00 MP	02/28/09	AQ	Ground Water	UST645-MW29
F63657-12	02/27/09	15:30 MP	02/28/09	AQ	Ground Water	UST645-MW30
F63657-13	02/27/09	13:35 MP	02/28/09	AQ	Ground Water	UST645-MW31



Sample Summary
(continued)

Shaw E & I, Inc.

Job No: F63657

Camp Lejeune-BLDG. 645
Project No: 824603

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
F63657-14	02/27/09	00:00 MP	02/28/09	AQ	Trip Blank Water	UST645-TB-022709



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	UST645-MW05	Date Sampled:	02/27/09
Lab Sample ID:	F63657-1	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033345.D	1	03/02/09	MM	n/a	n/a	VN1367
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW05	Date Sampled:	02/27/09
Lab Sample ID:	F63657-1	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	86%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW06	Date Sampled:	02/27/09
Lab Sample ID:	F63657-2	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033346.D	1	03/02/09	MM	n/a	n/a	VN1367
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW06	Date Sampled:	02/27/09
Lab Sample ID:	F63657-2	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

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

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

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

Report of Analysis

Client Sample ID:	UST645-MW08	Date Sampled:	02/27/09
Lab Sample ID:	F63657-3	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033353.D	1	03/03/09	MM	n/a	n/a	VN1368
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW08	Date Sampled:	02/27/09
Lab Sample ID:	F63657-3	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

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

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

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

Report of Analysis

Client Sample ID:	UST645-MW09	Date Sampled:	02/27/09
Lab Sample ID:	F63657-4	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033354.D	1	03/03/09	MM	n/a	n/a	VN1368
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW09	Date Sampled:	02/27/09
Lab Sample ID:	F63657-4	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	85%		76-127%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW11	Date Sampled:	02/27/09
Lab Sample ID:	F63657-5	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033355.D	1	03/03/09	MM	n/a	n/a	VN1368
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-MW11
Lab Sample ID: F63657-5
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 02/27/09
Date Received: 02/28/09
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	86%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Page 1 of 2

Client Sample ID:	UST645-MW12	Date Sampled:	02/27/09
Lab Sample ID:	F63657-6	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033356.D	1	03/03/09	MM	n/a	n/a	VN1368
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW12	Date Sampled:	02/27/09
Lab Sample ID:	F63657-6	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	85%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW13	Date Sampled:	02/27/09
Lab Sample ID:	F63657-7	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033357.D	1	03/03/09	MM	n/a	n/a	VN1368
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW13	Date Sampled:	02/27/09
Lab Sample ID:	F63657-7	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	85%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW18	Date Sampled:	02/27/09
Lab Sample ID:	F63657-8	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033358.D	1	03/03/09	MM	n/a	n/a	VN1368
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	1.4	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	1.8	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.75	2.0	0.61	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	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	1.8	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW18	Date Sampled:	02/27/09
Lab Sample ID:	F63657-8	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	85%		76-127%
2037-26-5	Toluene-D8	94%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW28	Date Sampled:	02/27/09
Lab Sample ID:	F63657-9	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033359.D	1	03/03/09	MM	n/a	n/a	VN1368
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW28	Date Sampled:	02/27/09
Lab Sample ID:	F63657-9	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	87%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW28D	Date Sampled:	02/27/09
Lab Sample ID:	F63657-10	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033360.D	1	03/03/09	MM	n/a	n/a	VN1368
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW28D	Date Sampled:	02/27/09
Lab Sample ID:	F63657-10	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	85%		76-127%
2037-26-5	Toluene-D8	96%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW29	Date Sampled:	02/27/09
Lab Sample ID:	F63657-11	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033361.D	1	03/03/09	MM	n/a	n/a	VN1368
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	4.6	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50	1.0	0.26	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW29	Date Sampled:	02/27/09
Lab Sample ID:	F63657-11	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	85%		76-127%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW30	Date Sampled:	02/27/09
Lab Sample ID:	F63657-12	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033377.D	1	03/03/09	MM	n/a	n/a	VN1368
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-MW30
Lab Sample ID: F63657-12
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 02/27/09
Date Received: 02/28/09
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		87-116%
17060-07-0	1,2-Dichloroethane-D4	86%		76-127%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW31	Date Sampled:	02/27/09
Lab Sample ID:	F63657-13	Date Received:	02/28/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033378.D	1	03/03/09	MM	n/a	n/a	VN1368
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	0.40	ug/l	
75-27-4	Bromodichloromethane	4.4	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	14.0	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	1.7	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-MW31
Lab Sample ID: F63657-13
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 02/27/09
Date Received: 02/28/09
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	86%		76-127%
2037-26-5	Toluene-D8	93%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-TB-022709	Date Sampled:	02/27/09
Lab Sample ID:	F63657-14	Date Received:	02/28/09
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033379.D	1	03/03/09	MM	n/a	n/a	VN1368
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-TB-022709
Lab Sample ID: F63657-14
Matrix: AQ - Trip Blank Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 02/27/09
Date Received: 02/28/09
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		87-116%
17060-07-0	1,2-Dichloroethane-D4	87%		76-127%
2037-26-5	Toluene-D8	92%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

COC Number:
125709-645-022709-1



Shaw Environmental & Infrastructure, Inc.

F63657

[illegible]

1.2

F63657: Chain of Custody

Page 1 of 3

COC Number:
125709-645-022709-2



Shaw Environmental & Infrastructure, Inc.

F63657 Shaw E

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390										Receiving LAB: Accutest Analysis Desired									
Project Name CAMP LEJEUNE - Bldg 645				Project Location CAMP LEJEUNE, NC															
Project Number 125709		Contact Mark Martin		P.O. Number 282002		Reviewed by													
Client Rep US NAVY - LANTDIV				Project Manager Mark Pisarcik															
Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description		Number of Containers											
1	UST645-MW29	2/27/09	13:00		X	UST645-MW29		3	X										
2	UST645-MW30	2/27/09	15:30		X	UST645-MW30		3	X										
3	UST645-MW31	2/27/09	13:35		X	UST645-MW31		3	X										
4	UST645-TB-022709	2/27/09	—		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	[Signature]	FedEx 8684 4334 4731	2/27/09	18:00	14 Day TAT
2		FX	JC (ACCUTEST)	2-28-09	10:00	
3						

1.2

F63657: Chain of Custody

Page 2 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F63657
 DATE/TIME RECEIVED: 2-28-09 10:00
 METHOD OF DELIVERY: FEDEX UPS
 AIRBILL NUMBERS: 8684 4334 4731

CLIENT: SHAW PROJECT: CAMP LEJEUNE Bldg 645
 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.2
 ACCUTEST COURIER GREYHOUND DELIVERY OTHER

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

MISC. INFORMATION

NUMBER OF ENCORES ? _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____

SUMMARY OF COMMENTS: _____

SAMPLE INFORMATION

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

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE K 2-28-09 TECHNICIAN SIGNATURE/DATE [Signature]

ASBD 12/17/07

F63657: Chain of Custody

Page 3 of 3



GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 2

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1367-MB	N0033324.D	1	03/02/09	MM	n/a	n/a	VN1367

The QC reported here applies to the following samples:

Method: EPA 624

F63657-1, F63657-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1367-MB	N0033324.D	1	03/02/09	MM	n/a	n/a	VN1367

The QC reported here applies to the following samples: Method: EPA 624

F63657-1, F63657-2

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	104% 87-116%
17060-07-0	1,2-Dichloroethane-D4	87% 76-127%
2037-26-5	Toluene-D8	96% 86-112%
460-00-4	4-Bromofluorobenzene	102% 84-120%

Method Blank Summary

Page 1 of 2

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1368-MB	N0033352.D	1	03/03/09	MM	n/a	n/a	VN1368

The QC reported here applies to the following samples:

Method: EPA 624

F63657-3, F63657-4, F63657-5, F63657-6, F63657-7, F63657-8, F63657-9, F63657-10, F63657-11, F63657-12, F63657-13, F63657-14

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1368-MB	N0033352.D	1	03/03/09	MM	n/a	n/a	VN1368

The QC reported here applies to the following samples: Method: EPA 624

F63657-3, F63657-4, F63657-5, F63657-6, F63657-7, F63657-8, F63657-9, F63657-10, F63657-11, F63657-12, F63657-13, F63657-14

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 87-116%
17060-07-0	1,2-Dichloroethane-D4	88% 76-127%
2037-26-5	Toluene-D8	93% 86-112%
460-00-4	4-Bromofluorobenzene	102% 84-120%

Blank Spike Summary

Page 1 of 2

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1367-BS	N0033323.D	1	03/02/09	MM	n/a	n/a	VN1367

The QC reported here applies to the following samples:

Method: EPA 624

F63657-1, F63657-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	28.2	113	83-124
75-27-4	Bromodichloromethane	25	25.9	104	76-116
75-25-2	Bromoform	25	26.1	104	68-128
108-90-7	Chlorobenzene	25	26.0	104	87-115
75-00-3	Chloroethane	25	23.7	95	54-166
67-66-3	Chloroform	25	28.8	115	85-123
110-75-8	2-Chloroethyl vinyl ether	125	125	100	63-125
56-23-5	Carbon tetrachloride	25	30.7	123	74-139
75-34-3	1,1-Dichloroethane	25	29.5	118	82-127
75-35-4	1,1-Dichloroethylene	25	30.2	121	75-133
107-06-2	1,2-Dichloroethane	25	25.2	101	76-122
78-87-5	1,2-Dichloropropane	25	27.6	110	81-120
124-48-1	Dibromochloromethane	25	26.3	105	74-116
75-71-8	Dichlorodifluoromethane	25	15.7	63	34-158
156-59-2	cis-1,2-Dichloroethylene	25	27.2	109	81-114
10061-01-5	cis-1,3-Dichloropropene	25	26.3	105	83-119
541-73-1	m-Dichlorobenzene	25	26.7	107	86-115
95-50-1	o-Dichlorobenzene	25	26.1	104	85-115
106-46-7	p-Dichlorobenzene	25	26.3	105	87-113
156-60-5	trans-1,2-Dichloroethylene	25	28.6	114	82-126
10061-02-6	trans-1,3-Dichloropropene	25	26.3	105	87-123
100-41-4	Ethylbenzene	25	25.9	104	87-118
74-83-9	Methyl bromide	25	24.2	97	55-151
74-87-3	Methyl chloride	25	27.9	112	55-173
75-09-2	Methylene chloride	25	26.7	107	69-125
1634-04-4	Methyl Tert Butyl Ether	25	23.8	95	75-116
71-55-6	1,1,1-Trichloroethane	25	29.4	118	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	23.0	92	71-120
79-00-5	1,1,2-Trichloroethane	25	23.3	93	80-114
127-18-4	Tetrachloroethylene	25	29.5	118	80-131
108-88-3	Toluene	25	25.8	103	86-116
79-01-6	Trichloroethylene	25	29.3	117	85-124
75-69-4	Trichlorofluoromethane	25	24.5	98	66-156
75-01-4	Vinyl chloride	25	22.7	91	57-153
1330-20-7	Xylene (total)	75	75.1	100	86-120

Blank Spike Summary

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1367-BS	N0033323.D	1	03/02/09	MM	n/a	n/a	VN1367

The QC reported here applies to the following samples: Method: EPA 624

F63657-1, F63657-2

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

Blank Spike Summary

Page 1 of 2

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1368-BS	N0033351.D	1	03/03/09	MM	n/a	n/a	VN1368

The QC reported here applies to the following samples:

Method: SW846 8260B

F63657-3, F63657-4, F63657-5, F63657-6, F63657-7, F63657-8, F63657-9, F63657-10, F63657-11, F63657-12, F63657-13, F63657-14

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	28.8	115	83-124
75-27-4	Bromodichloromethane	25	26.6	106	76-116
75-25-2	Bromoform	25	26.3	105	68-128
108-90-7	Chlorobenzene	25	26.6	106	87-115
75-00-3	Chloroethane	25	25.5	102	54-166
67-66-3	Chloroform	25	29.9	120	85-123
110-75-8	2-Chloroethyl vinyl ether	125	124	99	63-125
56-23-5	Carbon tetrachloride	25	31.4	126	74-139
75-34-3	1,1-Dichloroethane	25	31.1	124	82-127
75-35-4	1,1-Dichloroethylene	25	29.8	119	75-133
107-06-2	1,2-Dichloroethane	25	24.9	100	76-122
78-87-5	1,2-Dichloropropane	25	28.6	114	81-120
124-48-1	Dibromochloromethane	25	27.5	110	74-116
75-71-8	Dichlorodifluoromethane	25	15.2	61	34-158
156-59-2	cis-1,2-Dichloroethylene	25	28.6	114	81-114
10061-01-5	cis-1,3-Dichloropropene	25	27.5	110	83-119
541-73-1	m-Dichlorobenzene	25	26.9	108	86-115
95-50-1	o-Dichlorobenzene	25	26.7	107	85-115
106-46-7	p-Dichlorobenzene	25	27.1	108	87-113
156-60-5	trans-1,2-Dichloroethylene	25	28.2	113	82-126
10061-02-6	trans-1,3-Dichloropropene	25	26.1	104	87-123
100-41-4	Ethylbenzene	25	26.1	104	87-118
74-83-9	Methyl bromide	25	25.0	100	55-151
74-87-3	Methyl chloride	25	26.4	106	55-173
75-09-2	Methylene chloride	25	26.7	107	69-125
1634-04-4	Methyl Tert Butyl Ether	25	23.3	93	75-116
71-55-6	1,1,1-Trichloroethane	25	30.4	122	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	23.1	92	71-120
79-00-5	1,1,2-Trichloroethane	25	24.3	97	80-114
127-18-4	Tetrachloroethylene	25	30.5	122	80-131
108-88-3	Toluene	25	26.8	107	86-116
79-01-6	Trichloroethylene	25	29.0	116	85-124
75-69-4	Trichlorofluoromethane	25	24.5	98	66-156
75-01-4	Vinyl chloride	25	22.3	89	57-153
1330-20-7	Xylene (total)	75	76.5	102	86-120

Blank Spike Summary

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1368-BS	N0033351.D	1	03/03/09	MM	n/a	n/a	VN1368

The QC reported here applies to the following samples: Method: SW846 8260B

F63657-3, F63657-4, F63657-5, F63657-6, F63657-7, F63657-8, F63657-9, F63657-10, F63657-11, F63657-12, F63657-13, F63657-14

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	87-116%
17060-07-0	1,2-Dichloroethane-D4	90%	76-127%
2037-26-5	Toluene-D8	92%	86-112%
460-00-4	4-Bromofluorobenzene	93%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63583-1MS	N0033338.D	1	03/02/09	MM	n/a	n/a	VN1367
F63583-1MSD	N0033339.D	1	03/02/09	MM	n/a	n/a	VN1367
F63583-1	N0033329.D	1	03/02/09	MM	n/a	n/a	VN1367

The QC reported here applies to the following samples:

Method: EPA 624

F63657-1, F63657-2

CAS No.	Compound	F63583-1 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	28.5	114	27.6	110	3	83-124/11
75-27-4	Bromodichloromethane	ND		25	25.5	102	25.3	101	1	76-116/10
75-25-2	Bromoform	ND		25	24.9	100	26.2	105	5	68-128/11
108-90-7	Chlorobenzene	ND		25	26.1	104	26.2	105	0	87-115/9
75-00-3	Chloroethane	ND		25	23.9	96	23.8	95	0	54-166/20
67-66-3	Chloroform	ND		25	29.1	116	28.4	114	2	85-123/10
110-75-8	2-Chloroethyl vinyl ether	ND		125	ND	0*	ND	0*	nc	63-125/24
56-23-5	Carbon tetrachloride	ND		25	28.7	115	28.6	114	0	74-139/13
75-34-3	1,1-Dichloroethane	ND		25	30.5	122	29.9	120	2	82-127/10
75-35-4	1,1-Dichloroethylene	ND		25	23.8	95	26.1	104	9	75-133/13
107-06-2	1,2-Dichloroethane	ND		25	24.6	98	24.5	98	0	76-122/11
78-87-5	1,2-Dichloropropane	ND		25	27.4	110	27.1	108	1	81-120/11
124-48-1	Dibromochloromethane	ND		25	26.3	105	26.5	106	1	74-116/11
75-71-8	Dichlorodifluoromethane	ND		25	11.3	45	11.5	46	2	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND		25	27.6	110	27.5	110	0	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND		25	25.0	100	24.7	99	1	83-119/10
541-73-1	m-Dichlorobenzene	ND		25	26.1	104	25.9	104	1	86-115/9
95-50-1	o-Dichlorobenzene	ND		25	26.3	105	25.9	104	2	85-115/9
106-46-7	p-Dichlorobenzene	ND		25	26.5	106	26.2	105	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND		25	24.4	98	24.8	99	2	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND		25	25.4	102	25.5	102	0	87-123/10
100-41-4	Ethylbenzene	ND		25	25.0	100	25.0	100	0	87-118/10
74-83-9	Methyl bromide	ND		25	21.6	86	22.3	89	3	55-151/21
74-87-3	Methyl chloride	ND		25	24.2	97	25.1	100	4	55-173/22
75-09-2	Methylene chloride	ND		25	24.0	96	24.7	99	3	69-125/11
1634-04-4	Methyl Tert Butyl Ether	0.60	J	25	20.8	81	22.2	86	7	75-116/10
71-55-6	1,1,1-Trichloroethane	ND		25	28.4	114	27.6	110	3	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	24.0	96	24.7	99	3	71-120/11
79-00-5	1,1,2-Trichloroethane	ND		25	24.5	98	25.3	101	3	80-114/11
127-18-4	Tetrachloroethylene	ND		25	28.2	113	28.0	112	1	80-131/12
108-88-3	Toluene	ND		25	26.2	105	26.4	106	1	86-116/10
79-01-6	Trichloroethylene	ND		25	29.2	117	28.4	114	3	85-124/10
75-69-4	Trichlorofluoromethane	ND		25	18.9	76	20.1	80	6	66-156/15
75-01-4	Vinyl chloride	ND		25	19.1	76	19.8	79	4	57-153/22
1330-20-7	Xylene (total)	ND		75	73.7	98	73.4	98	0	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63583-1MS	N0033338.D	1	03/02/09	MM	n/a	n/a	VN1367
F63583-1MSD	N0033339.D	1	03/02/09	MM	n/a	n/a	VN1367
F63583-1	N0033329.D	1	03/02/09	MM	n/a	n/a	VN1367

The QC reported here applies to the following samples: Method: EPA 624

F63657-1, F63657-2

CAS No.	Surrogate Recoveries	MS	MSD	F63583-1	Limits
1868-53-7	Dibromofluoromethane	105%	105%	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	90%	89%	85%	76-127%
2037-26-5	Toluene-D8	93%	93%	96%	86-112%
460-00-4	4-Bromofluorobenzene	93%	93%	103%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63657-11MS	N0033366.D	1	03/03/09	MM	n/a	n/a	VN1368
F63657-11MSD	N0033367.D	1	03/03/09	MM	n/a	n/a	VN1368
F63657-11	N0033361.D	1	03/03/09	MM	n/a	n/a	VN1368

The QC reported here applies to the following samples:

Method: EPA 624

F63657-3, F63657-4, F63657-5, F63657-6, F63657-7, F63657-8, F63657-9, F63657-10, F63657-11, F63657-12, F63657-13, F63657-14

CAS No.	Compound	F63657-11 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4.6	25	33.6	116	33.8	117	1	83-124/11
75-27-4	Bromodichloromethane	ND	25	26.3	105	26.8	107	2	76-116/10
75-25-2	Bromoform	ND	25	26.4	106	26.6	106	1	68-128/11
108-90-7	Chlorobenzene	ND	25	26.0	104	25.3	101	3	87-115/9
75-00-3	Chloroethane	ND	25	21.5	86	20.7	83	4	54-166/20
67-66-3	Chloroform	ND	25	29.1	116	29.1	116	0	85-123/10
110-75-8	2-Chloroethyl vinyl ether	ND	125	ND	0*	ND	0*	nc	63-125/24
56-23-5	Carbon tetrachloride	ND	25	30.9	124	30.5	122	1	74-139/13
75-34-3	1,1-Dichloroethane	ND	25	29.1	116	29.5	118	1	82-127/10
75-35-4	1,1-Dichloroethylene	ND	25	29.4	118	28.5	114	3	75-133/13
107-06-2	1,2-Dichloroethane	ND	25	25.5	102	26.8	107	5	76-122/11
78-87-5	1,2-Dichloropropane	ND	25	27.7	111	28.6	114	3	81-120/11
124-48-1	Dibromochloromethane	ND	25	26.2	105	25.5	102	3	74-116/11
75-71-8	Dichlorodifluoromethane	ND	25	13.4	54	13.3	53	1	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND	25	26.8	107	27.5	110	3	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND	25	25.8	103	26.2	105	2	83-119/10
541-73-1	m-Dichlorobenzene	ND	25	25.6	102	25.8	103	1	86-115/9
95-50-1	o-Dichlorobenzene	ND	25	25.7	103	25.5	102	1	85-115/9
106-46-7	p-Dichlorobenzene	ND	25	25.9	104	25.6	102	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND	25	28.7	115	28.2	113	2	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND	25	25.6	102	26.1	104	2	87-123/10
100-41-4	Ethylbenzene	ND	25	25.9	104	26.0	104	0	87-118/10
74-83-9	Methyl bromide	ND	25	21.6	86	20.5	82	5	55-151/21
74-87-3	Methyl chloride	ND	25	27.9	112	27.6	110	1	55-173/22
75-09-2	Methylene chloride	ND	25	25.7	103	25.2	101	2	69-125/11
1634-04-4	Methyl Tert Butyl Ether	0.50	J 25	22.2	87	25.5	100	14*	75-116/10
71-55-6	1,1,1-Trichloroethane	ND	25	29.0	116	29.7	119	2	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	22.4	90	22.8	91	2	71-120/11
79-00-5	1,1,2-Trichloroethane	ND	25	23.5	94	23.2	93	1	80-114/11
127-18-4	Tetrachloroethylene	ND	25	29.9	120	29.9	120	0	80-131/12
108-88-3	Toluene	ND	25	25.8	103	25.3	101	2	86-116/10
79-01-6	Trichloroethylene	ND	25	29.3	117	29.0	116	1	85-124/10
75-69-4	Trichlorofluoromethane	ND	25	22.7	91	22.1	88	3	66-156/15
75-01-4	Vinyl chloride	ND	25	22.5	90	21.9	88	3	57-153/22
1330-20-7	Xylene (total)	ND	75	75.1	100	74.6	99	1	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63657
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63657-11MS	N0033366.D	1	03/03/09	MM	n/a	n/a	VN1368
F63657-11MSD	N0033367.D	1	03/03/09	MM	n/a	n/a	VN1368
F63657-11	N0033361.D	1	03/03/09	MM	n/a	n/a	VN1368

The QC reported here applies to the following samples: Method: EPA 624

F63657-3, F63657-4, F63657-5, F63657-6, F63657-7, F63657-8, F63657-9, F63657-10, F63657-11, F63657-12, F63657-13, F63657-14

CAS No.	Surrogate Recoveries	MS	MSD	F63657-11	Limits
1868-53-7	Dibromofluoromethane	105%	105%	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	94%	98%	85%	76-127%
2037-26-5	Toluene-D8	91%	90%	95%	86-112%
460-00-4	4-Bromofluorobenzene	92%	93%	104%	84-120%



IT'S ALL IN THE CHEMISTRY

03/16/09

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-BLDG. 645

125709

Accutest Job Number: F63683

Sampling Date: 03/02/09

Report to:

Shaw E & I, Inc.
500 E Main St Suite 1630
Norfolk, VA 23510
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **45**



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

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary 3

Section 2: Sample Results 4

2.1: F63683-1: UST645-MW22 5

2.2: F63683-2: UST645-MW23 7

2.3: F63683-3: UST645-MW03 9

2.4: F63683-4: UST645-MW02 11

2.5: F63683-5: UST645-MW01 13

2.6: F63683-6: UST645-MW24 15

2.7: F63683-7: UST645-MW17 17

2.8: F63683-8: UST645-MW27 19

2.9: F63683-9: UST645-MW27D 21

2.10: F63683-10: UST645-MW26 23

2.11: F63683-11: UST645-TB-030209 25

Section 3: Misc. Forms 27

3.1: Chain of Custody 28

Section 4: GC/MS Volatiles - QC Data Summaries 30

4.1: Method Blank Summary 31

4.2: Blank Spike Summary 36

4.3: Matrix Spike/Matrix Spike Duplicate Summary 41



Sample Summary

Shaw E & I, Inc.

Job No: F63683

Camp Lejeune-BLDG. 645
Project No: 125709

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
F63683-1	03/02/09	09:00	JM	03/03/09	AQ	Ground Water	UST645-MW22
F63683-2	03/02/09	09:45	JM	03/03/09	AQ	Ground Water	UST645-MW23
F63683-3	03/02/09	10:30	JM	03/03/09	AQ	Ground Water	UST645-MW03
F63683-4	03/02/09	11:30	JM	03/03/09	AQ	Ground Water	UST645-MW02
F63683-5	03/02/09	12:00	JM	03/03/09	AQ	Ground Water	UST645-MW01
F63683-6	03/02/09	12:45	JM	03/03/09	AQ	Ground Water	UST645-MW24
F63683-7	03/02/09	13:15	JM	03/03/09	AQ	Ground Water	UST645-MW17
F63683-8	03/02/09	14:45	JM	03/03/09	AQ	Ground Water	UST645-MW27
F63683-9	03/02/09	14:45	JM	03/03/09	AQ	Ground Water	UST645-MW27D
F63683-10	03/02/09	15:30	JM	03/03/09	AQ	Ground Water	UST645-MW26
F63683-11	03/02/09	00:00	JM	03/03/09	AQ	Trip Blank Water	UST645-TB-030209



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	UST645-MW22	Date Sampled:	03/02/09
Lab Sample ID:	F63683-1	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033529.D	1	03/10/09	MM	n/a	n/a	VN1375
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW22	Date Sampled:	03/02/09
Lab Sample ID:	F63683-1	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	87%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

Client Sample ID: UST645-MW23
Lab Sample ID: F63683-2
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 03/02/09
Date Received: 03/03/09
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033532.D	1	03/10/09	MM	n/a	n/a	VN1375
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW23	Date Sampled:	03/02/09
Lab Sample ID:	F63683-2	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	90%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW03	Date Sampled:	03/02/09
Lab Sample ID:	F63683-3	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033533.D	1	03/10/09	MM	n/a	n/a	VN1375
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.54	1.0	0.43	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW03	Date Sampled:	03/02/09
Lab Sample ID:	F63683-3	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	88%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW02	Date Sampled:	03/02/09
Lab Sample ID:	F63683-4	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033592.D	1	03/12/09	MM	n/a	n/a	VN1377
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	0.39	1.0	0.28	ug/l	J
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	6.6	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	1.1	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW02	Date Sampled:	03/02/09
Lab Sample ID:	F63683-4	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	26.1	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	94%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW01	Date Sampled:	03/02/09
Lab Sample ID:	F63683-5	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033588.D	1	03/12/09	MM	n/a	n/a	VN1377
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	11.3	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	4.6	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW01	Date Sampled:	03/02/09
Lab Sample ID:	F63683-5	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	7.6	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	86%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	93%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW24	Date Sampled:	03/02/09
Lab Sample ID:	F63683-6	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033535.D	1	03/11/09	MM	n/a	n/a	VN1375
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW24	Date Sampled:	03/02/09
Lab Sample ID:	F63683-6	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	91%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW17	Date Sampled:	03/02/09
Lab Sample ID:	F63683-7	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033536.D	1	03/11/09	MM	n/a	n/a	VN1375
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW17	Date Sampled:	03/02/09
Lab Sample ID:	F63683-7	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

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

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

Report of Analysis

Page 1 of 2

Client Sample ID:	UST645-MW27	Date Sampled:	03/02/09
Lab Sample ID:	F63683-8	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033537.D	1	03/11/09	MM	n/a	n/a	VN1375
Run #2	N0033595.D	10	03/12/09	MM	n/a	n/a	VN1377
Run #3	N0033627.D	20	03/12/09	MM	n/a	n/a	VN1379

	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 ^a	20	8.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	5.7	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	710 ^b	10	2.6	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW27	Date Sampled:	03/02/09
Lab Sample ID:	F63683-8	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	41.8	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	1.9	3.0	1.2	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	99%	100%	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	89%	96%	87%	76-127%
2037-26-5	Toluene-D8	100%	102%	99%	86-112%
460-00-4	4-Bromofluorobenzene	100%	100%	100%	84-120%

(a) Result is from Run# 3

(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

Report of Analysis

Client Sample ID:	UST645-MW27D	Date Sampled:	03/02/09
Lab Sample ID:	F63683-9	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033549.D	50	03/11/09	MM	n/a	n/a	VN1375
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	1760	50	20	ug/l	
75-27-4	Bromodichloromethane	ND	50	10	ug/l	
75-25-2	Bromoform	ND	50	17	ug/l	
108-90-7	Chlorobenzene	ND	50	11	ug/l	
75-00-3	Chloroethane	ND	100	24	ug/l	
67-66-3	Chloroform	ND	50	14	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	250	50	ug/l	
56-23-5	Carbon tetrachloride	ND	50	11	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	27	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	17	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	11	ug/l	
124-48-1	Dibromochloromethane	ND	50	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	11	ug/l	
541-73-1	m-Dichlorobenzene	ND	50	12	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	10	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	11	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	11	ug/l	
100-41-4	Ethylbenzene	ND	50	22	ug/l	
74-83-9	Methyl bromide	ND	100	39	ug/l	
74-87-3	Methyl chloride	ND	100	31	ug/l	
75-09-2	Methylene chloride ^a	110	250	50	ug/l	JB
1634-04-4	Methyl Tert Butyl Ether	762	50	13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	17	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	11	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	13	ug/l	
127-18-4	Tetrachloroethylene	ND	50	11	ug/l	
108-88-3	Toluene	44.8	50	18	ug/l	J
79-01-6	Trichloroethylene	ND	50	16	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW27D	Date Sampled:	03/02/09
Lab Sample ID:	F63683-9	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
75-01-4	Vinyl chloride	ND	50	15	ug/l	
1330-20-7	Xylene (total)	ND	150	58	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	101%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	108%		84-120%

(a) Suspected laboratory contaminant.

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

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

Report of Analysis

Client Sample ID:	UST645-MW26	Date Sampled:	03/02/09
Lab Sample ID:	F63683-10	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033593.D	1	03/12/09	MM	n/a	n/a	VN1377
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	0.92	1.0	0.40	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.65	1.0	0.21	ug/l	J
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.3	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	0.38	1.0	0.35	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW26	Date Sampled:	03/02/09
Lab Sample ID:	F63683-10	Date Received:	03/03/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-TB-030209	Date Sampled:	03/02/09
Lab Sample ID:	F63683-11	Date Received:	03/03/09
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033587.D	1	03/12/09	MM	n/a	n/a	VN1377
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-TB-030209
Lab Sample ID: F63683-11
Matrix: AQ - Trip Blank Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 03/02/09
Date Received: 03/03/09
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	87%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody



Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

F63683 Shaw

Show E & I - Piney Green Rd. Lot 203 Bldg 626 - 910-451-2390							Receiving LAB: Accutest													
Project Name CAMP LEJEUNE - Bldg 645			Project Location CAMP LEJEUNE, NC				Analysis Desired													
Project Number 125709		Contact Mark Martin		P.O. Number 282002		Reviewed by														
Client Rep US NAVY - LANTDIV				Project Manager Mark Pisarcik																
Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers													
(1)	UST645-MW22	3/2/09	9:00	X		UST645-MW22	3	X												
(2)	UST645-MW23	3/2/09	9:45	X		UST645-MW23	3	X												
(3)	UST645-MW03	3/2/09	10:30	X		UST645-MW03	3	X												
(4)	UST645-MW02	3/2/09	11:30	X		UST645-MW02	3	X												
(5)	UST645-MW01	3/2/09	12:00	X		UST645-MW01	3	X												
(6)	UST645-MW24	3/2/09	12:45	X		UST645-MW24	3	X												
(7)	UST645-MW17	3/2/09	13:15	X		UST645-MW17	3	X												
(8)	UST645-MW27	3/2/09	14:45	X		UST645-MW27	3	X												
(9)	UST645-MW27D	3/2/09	14:45	X		UST645-MW27D	3	X												
(10)	UST645-MW26	3/2/09	15:30	X		UST645-MW26	3	X												
(11)	UST645-TB-030209	3/2/09		X		Trip Blank	2	X												

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks 14 Day TAT 1-2
1	1 -- 11	J.A.M.H.	FedEx 8884 4334 4710	03/02/09	17:00	
2		FX	L. Cornell (Accutest)	3-3-09	09:00	
3						

F63683: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F63683
 DATE/TIME RECEIVED: 3-3-09 09:00
 METHOD OF DELIVERY: FEDEX UPS
 AIRBILL NUMBERS: 8684 4334 4710

CLIENT: SHAW PROJECT: CAMP LEJEUNE Bldg 645
 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.2
 ACCUTEST COURIER GREYHOUND DELIVERY OTHER

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

MISC. INFORMATION

NUMBER OF ENCORES ? _____
 NUMBER OF 5035 FIELD KITS ? _____
 NUMBER OF LAB FILTERED METALS ? _____

SUMMARY OF COMMENTS: _____

SAMPLE INFORMATION

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

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE le 3-3-09

TECHNICIAN SIGNATURE/DATE CLR 3/3/09

ASBD 12/17/07

F63683: Chain of Custody

Page 2 of 2



GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 2

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1375-MB	N0033506.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples:

Method: EPA 624

F63683-1, F63683-2, F63683-3, F63683-6, F63683-7, F63683-8, F63683-9

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	0.29	1.0	0.28	ug/l	J
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	2.9	5.0	1.0	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1375-MB	N0033506.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples: Method: EPA 624

F63683-1, F63683-2, F63683-3, F63683-6, F63683-7, F63683-8, F63683-9

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 87-116%
17060-07-0	1,2-Dichloroethane-D4	90% 76-127%
2037-26-5	Toluene-D8	99% 86-112%
460-00-4	4-Bromofluorobenzene	99% 84-120%

Method Blank Summary

Page 1 of 2

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1377-MB	N0033563.D	1	03/11/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples:

Method: EPA 624

F63683-4, F63683-5, F63683-8, F63683-10, F63683-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.6	5.0	1.0	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1377-MB	N0033563.D	1	03/11/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples: Method: EPA 624

F63683-4, F63683-5, F63683-8, F63683-10, F63683-11

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	104% 87-116%
17060-07-0	1,2-Dichloroethane-D4	89% 76-127%
2037-26-5	Toluene-D8	101% 86-112%
460-00-4	4-Bromofluorobenzene	100% 84-120%

Method Blank Summary

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1379-MB	N0033606.D	1	03/12/09	MM	n/a	n/a	VN1379

The QC reported here applies to the following samples: Method: EPA 624

F63683-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	105% 87-116%
17060-07-0	1,2-Dichloroethane-D4	89% 76-127%
2037-26-5	Toluene-D8	98% 86-112%
460-00-4	4-Bromofluorobenzene	98% 84-120%

Blank Spike Summary

Page 1 of 2

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1375-BS	N0033505.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples:

Method: EPA 624

F63683-1, F63683-2, F63683-3, F63683-6, F63683-7, F63683-8, F63683-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	28.2	113	83-124
75-27-4	Bromodichloromethane	25	26.0	104	76-116
75-25-2	Bromoform	25	25.3	101	68-128
108-90-7	Chlorobenzene	25	26.8	107	87-115
75-00-3	Chloroethane	25	22.5	90	54-166
67-66-3	Chloroform	25	28.1	112	85-123
110-75-8	2-Chloroethyl vinyl ether	125	112	90	63-125
56-23-5	Carbon tetrachloride	25	29.7	119	74-139
75-34-3	1,1-Dichloroethane	25	30.2	121	82-127
75-35-4	1,1-Dichloroethylene	25	27.9	112	75-133
107-06-2	1,2-Dichloroethane	25	24.4	98	76-122
78-87-5	1,2-Dichloropropane	25	26.6	106	81-120
124-48-1	Dibromochloromethane	25	27.2	109	74-116
75-71-8	Dichlorodifluoromethane	25	19.3	77	34-158
156-59-2	cis-1,2-Dichloroethylene	25	26.4	106	81-114
10061-01-5	cis-1,3-Dichloropropene	25	26.9	108	83-119
541-73-1	m-Dichlorobenzene	25	27.6	110	86-115
95-50-1	o-Dichlorobenzene	25	27.1	108	85-115
106-46-7	p-Dichlorobenzene	25	26.9	108	87-113
156-60-5	trans-1,2-Dichloroethylene	25	27.1	108	82-126
10061-02-6	trans-1,3-Dichloropropene	25	26.9	108	87-123
100-41-4	Ethylbenzene	25	26.5	106	87-118
74-83-9	Methyl bromide	25	22.8	91	55-151
74-87-3	Methyl chloride	25	28.5	114	55-173
75-09-2	Methylene chloride	25	30.1	120	69-125
1634-04-4	Methyl Tert Butyl Ether	25	22.7	91	75-116
71-55-6	1,1,1-Trichloroethane	25	29.9	120	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.8	99	71-120
79-00-5	1,1,2-Trichloroethane	25	25.9	104	80-114
127-18-4	Tetrachloroethylene	25	30.9	124	80-131
108-88-3	Toluene	25	28.0	112	86-116
79-01-6	Trichloroethylene	25	28.8	115	85-124
75-69-4	Trichlorofluoromethane	25	24.0	96	66-156
75-01-4	Vinyl chloride	25	23.6	94	57-153
1330-20-7	Xylene (total)	75	80.9	108	86-120

Blank Spike Summary

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1375-BS	N0033505.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples: Method: EPA 624

F63683-1, F63683-2, F63683-3, F63683-6, F63683-7, F63683-8, F63683-9

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

Blank Spike Summary

Page 1 of 2

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1377-BS	N0033562.D	1	03/11/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples:

Method: EPA 624

F63683-4, F63683-5, F63683-8, F63683-10, F63683-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	28.6	114	83-124
75-27-4	Bromodichloromethane	25	26.1	104	76-116
75-25-2	Bromoform	25	26.7	107	68-128
108-90-7	Chlorobenzene	25	26.9	108	87-115
75-00-3	Chloroethane	25	22.6	90	54-166
67-66-3	Chloroform	25	28.0	112	85-123
110-75-8	2-Chloroethyl vinyl ether	125	111	89	63-125
56-23-5	Carbon tetrachloride	25	29.8	119	74-139
75-34-3	1,1-Dichloroethane	25	30.0	120	82-127
75-35-4	1,1-Dichloroethylene	25	26.4	106	75-133
107-06-2	1,2-Dichloroethane	25	24.9	100	76-122
78-87-5	1,2-Dichloropropane	25	26.8	107	81-120
124-48-1	Dibromochloromethane	25	27.7	111	74-116
75-71-8	Dichlorodifluoromethane	25	18.9	76	34-158
156-59-2	cis-1,2-Dichloroethylene	25	26.5	106	81-114
10061-01-5	cis-1,3-Dichloropropene	25	27.0	108	83-119
541-73-1	m-Dichlorobenzene	25	28.0	112	86-115
95-50-1	o-Dichlorobenzene	25	27.3	109	85-115
106-46-7	p-Dichlorobenzene	25	27.6	110	87-113
156-60-5	trans-1,2-Dichloroethylene	25	25.8	103	82-126
10061-02-6	trans-1,3-Dichloropropene	25	27.5	110	87-123
100-41-4	Ethylbenzene	25	26.8	107	87-118
74-83-9	Methyl bromide	25	23.1	92	55-151
74-87-3	Methyl chloride	25	27.7	111	55-173
75-09-2	Methylene chloride	25	23.5	94	69-125
1634-04-4	Methyl Tert Butyl Ether	25	21.6	86	75-116
71-55-6	1,1,1-Trichloroethane	25	30.1	120	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.5	98	71-120
79-00-5	1,1,2-Trichloroethane	25	26.1	104	80-114
127-18-4	Tetrachloroethylene	25	32.0	128	80-131
108-88-3	Toluene	25	28.3	113	86-116
79-01-6	Trichloroethylene	25	29.1	116	85-124
75-69-4	Trichlorofluoromethane	25	23.3	93	66-156
75-01-4	Vinyl chloride	25	23.5	94	57-153
1330-20-7	Xylene (total)	75	81.2	108	86-120

Blank Spike Summary

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1377-BS	N0033562.D	1	03/11/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples:

Method: EPA 624

F63683-4, F63683-5, F63683-8, F63683-10, F63683-11

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	94%	84-120%

Blank Spike Summary

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1379-BS	N0033605.D	1	03/12/09	MM	n/a	n/a	VN1379

The QC reported here applies to the following samples: Method: EPA 624

F63683-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	26.9	108	83-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	94%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	94%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63683-1MS	N0033530.D	1	03/10/09	MM	n/a	n/a	VN1375
F63683-1MSD	N0033531.D	1	03/10/09	MM	n/a	n/a	VN1375
F63683-1	N0033529.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples:

Method: EPA 624

F63683-1, F63683-2, F63683-3, F63683-6, F63683-7, F63683-8, F63683-9

CAS No.	Compound	F63683-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	25	27.6	110	26.9	108	3	83-124/11
75-27-4	Bromodichloromethane	ND	25	25.8	103	25.3	101	2	76-116/10
75-25-2	Bromoform	ND	25	25.3	101	25.3	101	0	68-128/11
108-90-7	Chlorobenzene	ND	25	26.1	104	26.1	104	0	87-115/9
75-00-3	Chloroethane	ND	25	21.0	84	22.3	89	6	54-166/20
67-66-3	Chloroform	ND	25	27.7	111	27.2	109	2	85-123/10
110-75-8	2-Chloroethyl vinyl ether	ND	125	ND	0*	ND	0*	nc	63-125/24
56-23-5	Carbon tetrachloride	ND	25	29.3	117	28.4	114	3	74-139/13
75-34-3	1,1-Dichloroethane	ND	25	29.5	118	29.0	116	2	82-127/10
75-35-4	1,1-Dichloroethylene	ND	25	25.5	102	25.6	102	0	75-133/13
107-06-2	1,2-Dichloroethane	ND	25	24.2	97	24.0	96	1	76-122/11
78-87-5	1,2-Dichloropropane	ND	25	26.4	106	26.2	105	1	81-120/11
124-48-1	Dibromochloromethane	ND	25	26.5	106	26.3	105	1	74-116/11
75-71-8	Dichlorodifluoromethane	ND	25	16.7	67	16.3	65	2	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND	25	26.7	107	25.0	100	7	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND	25	24.4	98	23.7	95	3	83-119/10
541-73-1	m-Dichlorobenzene	ND	25	27.4	110	27.3	109	0	86-115/9
95-50-1	o-Dichlorobenzene	ND	25	26.5	106	26.4	106	0	85-115/9
106-46-7	p-Dichlorobenzene	ND	25	26.7	107	27.0	108	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND	25	25.2	101	25.7	103	2	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND	25	24.9	100	25.5	102	2	87-123/10
100-41-4	Ethylbenzene	ND	25	25.5	102	25.9	104	2	87-118/10
74-83-9	Methyl bromide	ND	25	21.2	85	21.6	86	2	55-151/21
74-87-3	Methyl chloride	ND	25	26.7	107	27.5	110	3	55-173/22
75-09-2	Methylene chloride	ND	25	22.4	90	22.5	90	0	69-125/11
1634-04-4	Methyl Tert Butyl Ether	ND	25	21.9	88	22.3	89	2	75-116/10
71-55-6	1,1,1-Trichloroethane	ND	25	29.6	118	28.7	115	3	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	24.8	99	24.7	99	0	71-120/11
79-00-5	1,1,2-Trichloroethane	ND	25	25.6	102	25.5	102	0	80-114/11
127-18-4	Tetrachloroethylene	ND	25	30.1	120	29.7	119	1	80-131/12
108-88-3	Toluene	ND	25	27.2	109	26.8	107	1	86-116/10
79-01-6	Trichloroethylene	ND	25	28.2	113	27.8	111	1	85-124/10
75-69-4	Trichlorofluoromethane	ND	25	21.1	84	21.2	85	0	66-156/15
75-01-4	Vinyl chloride	ND	25	22.0	88	22.6	90	3	57-153/22
1330-20-7	Xylene (total)	ND	75	77.3	103	77.5	103	0	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63683-1MS	N0033530.D	1	03/10/09	MM	n/a	n/a	VN1375
F63683-1MSD	N0033531.D	1	03/10/09	MM	n/a	n/a	VN1375
F63683-1	N0033529.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples: Method: EPA 624

F63683-1, F63683-2, F63683-3, F63683-6, F63683-7, F63683-8, F63683-9

CAS No.	Surrogate Recoveries	MS	MSD	F63683-1	Limits
1868-53-7	Dibromofluoromethane	105%	104%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	93%	94%	87%	76-127%
2037-26-5	Toluene-D8	100%	101%	99%	86-112%
460-00-4	4-Bromofluorobenzene	94%	96%	100%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63774-9MS	N0033590.D	1	03/12/09	MM	n/a	n/a	VN1377
F63774-9MSD	N0033591.D	1	03/12/09	MM	n/a	n/a	VN1377
F63774-9	N0033589.D	1	03/12/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples:

Method: EPA 624

F63683-4, F63683-5, F63683-8, F63683-10, F63683-11

CAS No.	Compound	F63774-9 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	25	26.8	107	26.8	107	0	83-124/11
75-27-4	Bromodichloromethane	ND	25	24.7	99	25.1	100	2	76-116/10
75-25-2	Bromoform	ND	25	25.4	102	25.7	103	1	68-128/11
108-90-7	Chlorobenzene	ND	25	27.7	111	27.8	111	0	87-115/9
75-00-3	Chloroethane	ND	25	21.3	85	22.6	90	6	54-166/20
67-66-3	Chloroform	ND	25	26.9	108	26.9	108	0	85-123/10
110-75-8	2-Chloroethyl vinyl ether	ND	125	ND	0*	ND	0*	nc	63-125/24
56-23-5	Carbon tetrachloride	ND	25	28.2	113	27.8	111	1	74-139/13
75-34-3	1,1-Dichloroethane	ND	25	29.5	118	28.5	114	3	82-127/10
75-35-4	1,1-Dichloroethylene	ND	25	24.3	97	24.8	99	2	75-133/13
107-06-2	1,2-Dichloroethane	ND	25	23.9	96	23.5	94	2	76-122/11
78-87-5	1,2-Dichloropropane	ND	25	25.5	102	25.8	103	1	81-120/11
124-48-1	Dibromochloromethane	ND	25	26.4	106	25.7	103	3	74-116/11
75-71-8	Dichlorodifluoromethane	ND	25	16.9	68	17.0	68	1	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND	25	25.7	103	25.2	101	2	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND	25	23.2	93	23.1	92	0	83-119/10
541-73-1	m-Dichlorobenzene	ND	25	27.2	109	26.8	107	1	86-115/9
95-50-1	o-Dichlorobenzene	ND	25	26.6	106	26.3	105	1	85-115/9
106-46-7	p-Dichlorobenzene	ND	25	26.3	105	26.4	106	0	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND	25	24.6	98	24.2	97	2	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND	25	24.1	96	24.4	98	1	87-123/10
100-41-4	Ethylbenzene	ND	25	24.9	100	25.2	101	1	87-118/10
74-83-9	Methyl bromide	ND	25	20.9	84	22.6	90	8	55-151/21
74-87-3	Methyl chloride	ND	25	27.5	110	27.9	112	1	55-173/22
75-09-2	Methylene chloride	ND	25	21.4	86	21.6	86	1	69-125/11
1634-04-4	Methyl Tert Butyl Ether	ND	25	21.1	84	20.8	83	1	75-116/10
71-55-6	1,1,1-Trichloroethane	ND	25	28.7	115	28.0	112	2	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	24.3	97	24.4	98	0	71-120/11
79-00-5	1,1,2-Trichloroethane	ND	25	24.5	98	24.6	98	0	80-114/11
127-18-4	Tetrachloroethylene	ND	25	29.2	117	29.5	118	1	80-131/12
108-88-3	Toluene	ND	25	27.5	110	27.9	112	1	86-116/10
79-01-6	Trichloroethylene	ND	25	27.9	112	27.3	109	2	85-124/10
75-69-4	Trichlorofluoromethane	ND	25	21.1	84	21.9	88	4	66-156/15
75-01-4	Vinyl chloride	ND	25	22.4	90	22.5	90	0	57-153/22
1330-20-7	Xylene (total)	ND	75	74.6	99	74.9	100	0	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63774-9MS	N0033590.D	1	03/12/09	MM	n/a	n/a	VN1377
F63774-9MSD	N0033591.D	1	03/12/09	MM	n/a	n/a	VN1377
F63774-9	N0033589.D	1	03/12/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples: Method: EPA 624

F63683-4, F63683-5, F63683-8, F63683-10, F63683-11

CAS No.	Surrogate Recoveries	MS	MSD	F63774-9	Limits
1868-53-7	Dibromofluoromethane	104%	102%	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	93%	92%	92%	76-127%
2037-26-5	Toluene-D8	99%	99%	99%	86-112%
460-00-4	4-Bromofluorobenzene	92%	93%	97%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63683
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63683-8MS	N0033629.D	20	03/12/09	MM	n/a	n/a	VN1379
F63683-8MSD	N0033630.D	20	03/12/09	MM	n/a	n/a	VN1379
F63683-8	N0033627.D	20	03/12/09	MM	n/a	n/a	VN1379

The QC reported here applies to the following samples: Method: EPA 624

F63683-8

CAS No.	Compound	F63683-8 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	1030	500	1530	100	1530	100	0	83-124/11

CAS No.	Surrogate Recoveries	MS	MSD	F63683-8	Limits
1868-53-7	Dibromofluoromethane	100%	104%	101%	87-116%
17060-07-0	1,2-Dichloroethane-D4	93%	94%	87%	76-127%
2037-26-5	Toluene-D8	99%	100%	99%	86-112%
460-00-4	4-Bromofluorobenzene	93%	94%	100%	84-120%



03/13/09

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-BLDG. 645

125709

Accutest Job Number: F63774

Sampling Dates: 03/04/09 - 03/05/09

Report to:

Shaw E & I, Inc.
500 E Main St Suite 1630
Norfolk, VA 23510
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

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



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

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: F63774-1: UST645-MW25	5
2.2: F63774-2: UST645-MW10	7
2.3: F63774-3: UST645-MW20	9
2.4: F63774-4: UST645-MW19	11
2.5: F63774-5: UST645-MW16	13
2.6: F63774-6: UST645-MW07	15
2.7: F63774-7: UST645-MW14	17
2.8: F63774-8: UST645-MW32	19
2.9: F63774-9: UST645-MW15	21
2.10: F63774-10: UST645-MW04	23
2.11: F63774-11: UST645-MW21	25
2.12: F63774-12: UST645-MW20D	27
Section 3: Misc. Forms	29
3.1: Chain of Custody	30
Section 4: GC/MS Volatiles - QC Data Summaries	32
4.1: Method Blank Summary	33
4.2: Blank Spike Summary	37
4.3: Matrix Spike/Matrix Spike Duplicate Summary	41



Sample Summary

Shaw E & I, Inc.

Job No: F63774

Camp Lejeune-BLDG. 645
Project No: 125709

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F63774-1	03/05/09	10:30 JM	03/06/09	AQ	Ground Water	UST645-MW25
F63774-2	03/05/09	11:00 JM	03/06/09	AQ	Ground Water	UST645-MW10
F63774-3	03/04/09	09:45 JM	03/06/09	AQ	Ground Water	UST645-MW20
F63774-4	03/04/09	10:30 JM	03/06/09	AQ	Ground Water	UST645-MW19
F63774-5	03/04/09	11:15 JM	03/06/09	AQ	Ground Water	UST645-MW16
F63774-6	03/04/09	12:15 JM	03/06/09	AQ	Ground Water	UST645-MW07
F63774-7	03/04/09	12:45 JM	03/06/09	AQ	Ground Water	UST645-MW14
F63774-8	03/04/09	13:45 JM	03/06/09	AQ	Ground Water	UST645-MW32
F63774-9	03/04/09	14:45 JM	03/06/09	AQ	Ground Water	UST645-MW15
F63774-10	03/04/09	15:45 JM	03/06/09	AQ	Ground Water	UST645-MW04
F63774-11	03/04/09	16:15 JM	03/06/09	AQ	Ground Water	UST645-MW21
F63774-12	03/04/09	09:45 JM	03/06/09	AQ	Ground Water	UST645-MW20D



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	UST645-MW25	Date Sampled:	03/05/09
Lab Sample ID:	F63774-1	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033539.D	1	03/11/09	MM	n/a	n/a	VN1375
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW25	Date Sampled:	03/05/09
Lab Sample ID:	F63774-1	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	100%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW10	Date Sampled:	03/05/09
Lab Sample ID:	F63774-2	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033540.D	1	03/11/09	MM	n/a	n/a	VN1375
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW10	Date Sampled:	03/05/09
Lab Sample ID:	F63774-2	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	88%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Client Sample ID: UST645-MW20
Lab Sample ID: F63774-3
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 03/04/09
Date Received: 03/06/09
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033541.D	1	03/11/09	MM	n/a	n/a	VN1375
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.78	2.0	0.61	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	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW20	Date Sampled:	03/04/09
Lab Sample ID:	F63774-3	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	87%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW19	Date Sampled:	03/04/09
Lab Sample ID:	F63774-4	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033542.D	1	03/11/09	MM	n/a	n/a	VN1375
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW19	Date Sampled:	03/04/09
Lab Sample ID:	F63774-4	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	88%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW16	Date Sampled:	03/04/09
Lab Sample ID:	F63774-5	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033543.D	1	03/11/09	MM	n/a	n/a	VN1375
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW16	Date Sampled:	03/04/09
Lab Sample ID:	F63774-5	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW07	Date Sampled:	03/04/09
Lab Sample ID:	F63774-6	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033544.D	1	03/11/09	MM	n/a	n/a	VN1375
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW07	Date Sampled:	03/04/09
Lab Sample ID:	F63774-6	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	87%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	99%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW14	Date Sampled:	03/04/09
Lab Sample ID:	F63774-7	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033596.D	1	03/12/09	MM	n/a	n/a	VN1377
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW14	Date Sampled:	03/04/09
Lab Sample ID:	F63774-7	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Client Sample ID: UST645-MW32
Lab Sample ID: F63774-8
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 03/04/09
Date Received: 03/06/09
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033597.D	1	03/12/09	MM	n/a	n/a	VN1377
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW32	Date Sampled:	03/04/09
Lab Sample ID:	F63774-8	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	91%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Page 1 of 2

Client Sample ID:	UST645-MW15	Date Sampled:	03/04/09
Lab Sample ID:	F63774-9	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033589.D	1	03/12/09	MM	n/a	n/a	VN1377
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW15	Date Sampled:	03/04/09
Lab Sample ID:	F63774-9	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	97%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW04	Date Sampled:	03/04/09
Lab Sample ID:	F63774-10	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033598.D	1	03/12/09	MM	n/a	n/a	VN1377
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW04	Date Sampled:	03/04/09
Lab Sample ID:	F63774-10	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	95%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW21	Date Sampled:	03/04/09
Lab Sample ID:	F63774-11	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033599.D	1	03/12/09	MM	n/a	n/a	VN1377
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: UST645-MW21
Lab Sample ID: F63774-11
Matrix: AQ - Ground Water
Method: EPA 624
Project: Camp Lejeune-BLDG. 645

Date Sampled: 03/04/09
Date Received: 03/06/09
Percent Solids: n/a

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		87-116%
17060-07-0	1,2-Dichloroethane-D4	90%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

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

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

Report of Analysis

Client Sample ID:	UST645-MW20D	Date Sampled:	03/04/09
Lab Sample ID:	F63774-12	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0033600.D	1	03/12/09	MM	n/a	n/a	VN1377
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	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	UST645-MW20D	Date Sampled:	03/04/09
Lab Sample ID:	F63774-12	Date Received:	03/06/09
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Camp Lejeune-BLDG. 645		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		87-116%
17060-07-0	1,2-Dichloroethane-D4	89%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	96%		84-120%

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

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



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390										Receiving LAB: Accutest										
Project Name					Project Location					Analysis Desired										
CAMP LEJEUNE - Bldg 645					CAMP LEJEUNE, NC															
Project Number		Contact			P.O. Number			Reviewed by												
125709		Mark Martin			282002															
Client Rep					Project Manager															
US NAVY - LANTDIV					Mark Pisarcik															
Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description			Number of Containers	Voc	601/602	w/Xylenes								
1	UST645-MW25	3/5/09	10:30		X	UST645-MW25			3	X										
2	UST645-MW10	3/5/09	11:00		X	UST645-MW10			3	X										
3	UST645-MW20	3/4/09	9:45		X	UST645-MW20			3	X										
4	UST645-MW19	3/4/09	10:30		X	UST645-MW19			3	X										
5	UST645-MW16	3/4/09	11:15		X	UST645-MW16			3	X										
6	UST645-MW07	3/4/09	12:15		X	UST645-MW07			3	X										
7	UST645-MW14	3/4/09	12:45		X	UST645-MW14			3	X										
8	UST645-MW32	3/4/09	13:45		X	UST645-MW32			3	X										
9	UST645-MW15	3/4/09	14:45		X	UST645-MW15			3	X										
10	UST645-MW04	3/4/09	15:45		X	UST645-MW04			3	X										
11	UST645-MW21	3/4/09	16:15		X	UST645-MW21			3	X										
12	UST645-MW20D	3/4/09	9:45		X	UST645-MW20D			3	X										
Transfer Number	Item Number	Transfers Relinquished By			Transfers Accepted By			Date	Time	Remarks										
1	1 -- 12	John MacLeod glna.mll			FedEx 8684 4334 4720			3/5/2009	14:00	14 Day TAT										
2		3/6/09 9:00			Accutest			3/6/09	4:00											

1.8

F63774: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F63774
 DATE/TIME RECEIVED: 3/16/04 9:20
 METHOD OF DELIVERY: FEDEX UPS
 AIRBILL NUMBERS: 8684 4334 4720

CLIENT: Shaw PROJECT: Camp Lejeune
 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.8
 ACCUTEST COURIER GREYHOUND DELIVERY OTHER

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

MISC. INFORMATION

NUMBER OF ENCORES ? 2
 NUMBER OF 5035 FIELD KITS ? 2
 NUMBER OF LAB FILTERED METALS ? 2

SUMMARY OF COMMENTS: _____

SAMPLE INFORMATION

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

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

TECHNICIAN SIGNATURE/DATE [Signature] 3/16/04

TECHNICIAN SIGNATURE/DATE [Signature] 3-6-04

ASBD 12/17/07

F63774: Chain of Custody

Page 2 of 2



GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 2

Job Number: F63774
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1375-MB	N0033506.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples:

Method: EPA 624

F63774-1, F63774-2, F63774-3, F63774-4, F63774-5, F63774-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	0.29	1.0	0.28	ug/l	J
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	2.9	5.0	1.0	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F63774
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1375-MB	N0033506.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples: Method: EPA 624

F63774-1, F63774-2, F63774-3, F63774-4, F63774-5, F63774-6

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	101% 87-116%
17060-07-0	1,2-Dichloroethane-D4	90% 76-127%
2037-26-5	Toluene-D8	99% 86-112%
460-00-4	4-Bromofluorobenzene	99% 84-120%

Method Blank Summary

Page 1 of 2

Job Number: F63774

Account: ITVAVAB Shaw E & I, Inc.

Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1377-MB	N0033563.D	1	03/11/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples:

Method: EPA 624

F63774-7, F63774-8, F63774-9, F63774-10, F63774-11, F63774-12

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.40	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.33	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.22	ug/l	
75-00-3	Chloroethane	ND	2.0	0.48	ug/l	
67-66-3	Chloroform	ND	1.0	0.28	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.54	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.21	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.43	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.78	ug/l	
74-87-3	Methyl chloride	ND	2.0	0.61	ug/l	
75-09-2	Methylene chloride	1.6	5.0	1.0	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.26	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.22	ug/l	
108-88-3	Toluene	ND	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.30	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.2	ug/l	

Method Blank Summary

Job Number: F63774
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1377-MB	N0033563.D	1	03/11/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples: Method: EPA 624

F63774-7, F63774-8, F63774-9, F63774-10, F63774-11, F63774-12

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	104% 87-116%
17060-07-0	1,2-Dichloroethane-D4	89% 76-127%
2037-26-5	Toluene-D8	101% 86-112%
460-00-4	4-Bromofluorobenzene	100% 84-120%

Blank Spike Summary

Page 1 of 2

Job Number: F63774
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1375-BS	N0033505.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples:

Method: EPA 624

F63774-1, F63774-2, F63774-3, F63774-4, F63774-5, F63774-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	28.2	113	83-124
75-27-4	Bromodichloromethane	25	26.0	104	76-116
75-25-2	Bromoform	25	25.3	101	68-128
108-90-7	Chlorobenzene	25	26.8	107	87-115
75-00-3	Chloroethane	25	22.5	90	54-166
67-66-3	Chloroform	25	28.1	112	85-123
110-75-8	2-Chloroethyl vinyl ether	125	112	90	63-125
56-23-5	Carbon tetrachloride	25	29.7	119	74-139
75-34-3	1,1-Dichloroethane	25	30.2	121	82-127
75-35-4	1,1-Dichloroethylene	25	27.9	112	75-133
107-06-2	1,2-Dichloroethane	25	24.4	98	76-122
78-87-5	1,2-Dichloropropane	25	26.6	106	81-120
124-48-1	Dibromochloromethane	25	27.2	109	74-116
75-71-8	Dichlorodifluoromethane	25	19.3	77	34-158
156-59-2	cis-1,2-Dichloroethylene	25	26.4	106	81-114
10061-01-5	cis-1,3-Dichloropropene	25	26.9	108	83-119
541-73-1	m-Dichlorobenzene	25	27.6	110	86-115
95-50-1	o-Dichlorobenzene	25	27.1	108	85-115
106-46-7	p-Dichlorobenzene	25	26.9	108	87-113
156-60-5	trans-1,2-Dichloroethylene	25	27.1	108	82-126
10061-02-6	trans-1,3-Dichloropropene	25	26.9	108	87-123
100-41-4	Ethylbenzene	25	26.5	106	87-118
74-83-9	Methyl bromide	25	22.8	91	55-151
74-87-3	Methyl chloride	25	28.5	114	55-173
75-09-2	Methylene chloride	25	30.1	120	69-125
1634-04-4	Methyl Tert Butyl Ether	25	22.7	91	75-116
71-55-6	1,1,1-Trichloroethane	25	29.9	120	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.8	99	71-120
79-00-5	1,1,2-Trichloroethane	25	25.9	104	80-114
127-18-4	Tetrachloroethylene	25	30.9	124	80-131
108-88-3	Toluene	25	28.0	112	86-116
79-01-6	Trichloroethylene	25	28.8	115	85-124
75-69-4	Trichlorofluoromethane	25	24.0	96	66-156
75-01-4	Vinyl chloride	25	23.6	94	57-153
1330-20-7	Xylene (total)	75	80.9	108	86-120

Blank Spike Summary

Job Number: F63774
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1375-BS	N0033505.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples: Method: EPA 624

F63774-1, F63774-2, F63774-3, F63774-4, F63774-5, F63774-6

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

Blank Spike Summary

Page 1 of 2

Job Number: F63774
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1377-BS	N0033562.D	1	03/11/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples:

Method: EPA 624

F63774-7, F63774-8, F63774-9, F63774-10, F63774-11, F63774-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	28.6	114	83-124
75-27-4	Bromodichloromethane	25	26.1	104	76-116
75-25-2	Bromoform	25	26.7	107	68-128
108-90-7	Chlorobenzene	25	26.9	108	87-115
75-00-3	Chloroethane	25	22.6	90	54-166
67-66-3	Chloroform	25	28.0	112	85-123
110-75-8	2-Chloroethyl vinyl ether	125	111	89	63-125
56-23-5	Carbon tetrachloride	25	29.8	119	74-139
75-34-3	1,1-Dichloroethane	25	30.0	120	82-127
75-35-4	1,1-Dichloroethylene	25	26.4	106	75-133
107-06-2	1,2-Dichloroethane	25	24.9	100	76-122
78-87-5	1,2-Dichloropropane	25	26.8	107	81-120
124-48-1	Dibromochloromethane	25	27.7	111	74-116
75-71-8	Dichlorodifluoromethane	25	18.9	76	34-158
156-59-2	cis-1,2-Dichloroethylene	25	26.5	106	81-114
10061-01-5	cis-1,3-Dichloropropene	25	27.0	108	83-119
541-73-1	m-Dichlorobenzene	25	28.0	112	86-115
95-50-1	o-Dichlorobenzene	25	27.3	109	85-115
106-46-7	p-Dichlorobenzene	25	27.6	110	87-113
156-60-5	trans-1,2-Dichloroethylene	25	25.8	103	82-126
10061-02-6	trans-1,3-Dichloropropene	25	27.5	110	87-123
100-41-4	Ethylbenzene	25	26.8	107	87-118
74-83-9	Methyl bromide	25	23.1	92	55-151
74-87-3	Methyl chloride	25	27.7	111	55-173
75-09-2	Methylene chloride	25	23.5	94	69-125
1634-04-4	Methyl Tert Butyl Ether	25	21.6	86	75-116
71-55-6	1,1,1-Trichloroethane	25	30.1	120	79-133
79-34-5	1,1,2,2-Tetrachloroethane	25	24.5	98	71-120
79-00-5	1,1,2-Trichloroethane	25	26.1	104	80-114
127-18-4	Tetrachloroethylene	25	32.0	128	80-131
108-88-3	Toluene	25	28.3	113	86-116
79-01-6	Trichloroethylene	25	29.1	116	85-124
75-69-4	Trichlorofluoromethane	25	23.3	93	66-156
75-01-4	Vinyl chloride	25	23.5	94	57-153
1330-20-7	Xylene (total)	75	81.2	108	86-120

Blank Spike Summary

Job Number: F63774
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VN1377-BS	N0033562.D	1	03/11/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples: Method: EPA 624

F63774-7, F63774-8, F63774-9, F63774-10, F63774-11, F63774-12

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	76-127%
2037-26-5	Toluene-D8	100%	86-112%
460-00-4	4-Bromofluorobenzene	94%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F63774
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63683-1MS	N0033530.D	1	03/10/09	MM	n/a	n/a	VN1375
F63683-1MSD	N0033531.D	1	03/10/09	MM	n/a	n/a	VN1375
F63683-1	N0033529.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples:

Method: EPA 624

F63774-1, F63774-2, F63774-3, F63774-4, F63774-5, F63774-6

CAS No.	Compound	F63683-1 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	25	27.6	110	26.9	108	3	83-124/11
75-27-4	Bromodichloromethane	ND	25	25.8	103	25.3	101	2	76-116/10
75-25-2	Bromoform	ND	25	25.3	101	25.3	101	0	68-128/11
108-90-7	Chlorobenzene	ND	25	26.1	104	26.1	104	0	87-115/9
75-00-3	Chloroethane	ND	25	21.0	84	22.3	89	6	54-166/20
67-66-3	Chloroform	ND	25	27.7	111	27.2	109	2	85-123/10
110-75-8	2-Chloroethyl vinyl ether	ND	125	ND	0*	ND	0*	nc	63-125/24
56-23-5	Carbon tetrachloride	ND	25	29.3	117	28.4	114	3	74-139/13
75-34-3	1,1-Dichloroethane	ND	25	29.5	118	29.0	116	2	82-127/10
75-35-4	1,1-Dichloroethylene	ND	25	25.5	102	25.6	102	0	75-133/13
107-06-2	1,2-Dichloroethane	ND	25	24.2	97	24.0	96	1	76-122/11
78-87-5	1,2-Dichloropropane	ND	25	26.4	106	26.2	105	1	81-120/11
124-48-1	Dibromochloromethane	ND	25	26.5	106	26.3	105	1	74-116/11
75-71-8	Dichlorodifluoromethane	ND	25	16.7	67	16.3	65	2	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND	25	26.7	107	25.0	100	7	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND	25	24.4	98	23.7	95	3	83-119/10
541-73-1	m-Dichlorobenzene	ND	25	27.4	110	27.3	109	0	86-115/9
95-50-1	o-Dichlorobenzene	ND	25	26.5	106	26.4	106	0	85-115/9
106-46-7	p-Dichlorobenzene	ND	25	26.7	107	27.0	108	1	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND	25	25.2	101	25.7	103	2	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND	25	24.9	100	25.5	102	2	87-123/10
100-41-4	Ethylbenzene	ND	25	25.5	102	25.9	104	2	87-118/10
74-83-9	Methyl bromide	ND	25	21.2	85	21.6	86	2	55-151/21
74-87-3	Methyl chloride	ND	25	26.7	107	27.5	110	3	55-173/22
75-09-2	Methylene chloride	ND	25	22.4	90	22.5	90	0	69-125/11
1634-04-4	Methyl Tert Butyl Ether	ND	25	21.9	88	22.3	89	2	75-116/10
71-55-6	1,1,1-Trichloroethane	ND	25	29.6	118	28.7	115	3	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	24.8	99	24.7	99	0	71-120/11
79-00-5	1,1,2-Trichloroethane	ND	25	25.6	102	25.5	102	0	80-114/11
127-18-4	Tetrachloroethylene	ND	25	30.1	120	29.7	119	1	80-131/12
108-88-3	Toluene	ND	25	27.2	109	26.8	107	1	86-116/10
79-01-6	Trichloroethylene	ND	25	28.2	113	27.8	111	1	85-124/10
75-69-4	Trichlorofluoromethane	ND	25	21.1	84	21.2	85	0	66-156/15
75-01-4	Vinyl chloride	ND	25	22.0	88	22.6	90	3	57-153/22
1330-20-7	Xylene (total)	ND	75	77.3	103	77.5	103	0	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63774
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63683-1MS	N0033530.D	1	03/10/09	MM	n/a	n/a	VN1375
F63683-1MSD	N0033531.D	1	03/10/09	MM	n/a	n/a	VN1375
F63683-1	N0033529.D	1	03/10/09	MM	n/a	n/a	VN1375

The QC reported here applies to the following samples: Method: EPA 624

F63774-1, F63774-2, F63774-3, F63774-4, F63774-5, F63774-6

CAS No.	Surrogate Recoveries	MS	MSD	F63683-1	Limits
1868-53-7	Dibromofluoromethane	105%	104%	104%	87-116%
17060-07-0	1,2-Dichloroethane-D4	93%	94%	87%	76-127%
2037-26-5	Toluene-D8	100%	101%	99%	86-112%
460-00-4	4-Bromofluorobenzene	94%	96%	100%	84-120%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F63774
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63774-9MS	N0033590.D	1	03/12/09	MM	n/a	n/a	VN1377
F63774-9MSD	N0033591.D	1	03/12/09	MM	n/a	n/a	VN1377
F63774-9	N0033589.D	1	03/12/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples:

Method: EPA 624

F63774-7, F63774-8, F63774-9, F63774-10, F63774-11, F63774-12

CAS No.	Compound	F63774-9 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	25	26.8	107	26.8	107	0	83-124/11
75-27-4	Bromodichloromethane	ND	25	24.7	99	25.1	100	2	76-116/10
75-25-2	Bromoform	ND	25	25.4	102	25.7	103	1	68-128/11
108-90-7	Chlorobenzene	ND	25	27.7	111	27.8	111	0	87-115/9
75-00-3	Chloroethane	ND	25	21.3	85	22.6	90	6	54-166/20
67-66-3	Chloroform	ND	25	26.9	108	26.9	108	0	85-123/10
110-75-8	2-Chloroethyl vinyl ether	ND	125	ND	0*	ND	0*	nc	63-125/24
56-23-5	Carbon tetrachloride	ND	25	28.2	113	27.8	111	1	74-139/13
75-34-3	1,1-Dichloroethane	ND	25	29.5	118	28.5	114	3	82-127/10
75-35-4	1,1-Dichloroethylene	ND	25	24.3	97	24.8	99	2	75-133/13
107-06-2	1,2-Dichloroethane	ND	25	23.9	96	23.5	94	2	76-122/11
78-87-5	1,2-Dichloropropane	ND	25	25.5	102	25.8	103	1	81-120/11
124-48-1	Dibromochloromethane	ND	25	26.4	106	25.7	103	3	74-116/11
75-71-8	Dichlorodifluoromethane	ND	25	16.9	68	17.0	68	1	34-158/22
156-59-2	cis-1,2-Dichloroethylene	ND	25	25.7	103	25.2	101	2	81-114/10
10061-01-5	cis-1,3-Dichloropropene	ND	25	23.2	93	23.1	92	0	83-119/10
541-73-1	m-Dichlorobenzene	ND	25	27.2	109	26.8	107	1	86-115/9
95-50-1	o-Dichlorobenzene	ND	25	26.6	106	26.3	105	1	85-115/9
106-46-7	p-Dichlorobenzene	ND	25	26.3	105	26.4	106	0	87-113/10
156-60-5	trans-1,2-Dichloroethylene	ND	25	24.6	98	24.2	97	2	82-126/10
10061-02-6	trans-1,3-Dichloropropene	ND	25	24.1	96	24.4	98	1	87-123/10
100-41-4	Ethylbenzene	ND	25	24.9	100	25.2	101	1	87-118/10
74-83-9	Methyl bromide	ND	25	20.9	84	22.6	90	8	55-151/21
74-87-3	Methyl chloride	ND	25	27.5	110	27.9	112	1	55-173/22
75-09-2	Methylene chloride	ND	25	21.4	86	21.6	86	1	69-125/11
1634-04-4	Methyl Tert Butyl Ether	ND	25	21.1	84	20.8	83	1	75-116/10
71-55-6	1,1,1-Trichloroethane	ND	25	28.7	115	28.0	112	2	79-133/11
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	24.3	97	24.4	98	0	71-120/11
79-00-5	1,1,2-Trichloroethane	ND	25	24.5	98	24.6	98	0	80-114/11
127-18-4	Tetrachloroethylene	ND	25	29.2	117	29.5	118	1	80-131/12
108-88-3	Toluene	ND	25	27.5	110	27.9	112	1	86-116/10
79-01-6	Trichloroethylene	ND	25	27.9	112	27.3	109	2	85-124/10
75-69-4	Trichlorofluoromethane	ND	25	21.1	84	21.9	88	4	66-156/15
75-01-4	Vinyl chloride	ND	25	22.4	90	22.5	90	0	57-153/22
1330-20-7	Xylene (total)	ND	75	74.6	99	74.9	100	0	86-120/10

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F63774
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-BLDG. 645

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F63774-9MS	N0033590.D	1	03/12/09	MM	n/a	n/a	VN1377
F63774-9MSD	N0033591.D	1	03/12/09	MM	n/a	n/a	VN1377
F63774-9	N0033589.D	1	03/12/09	MM	n/a	n/a	VN1377

The QC reported here applies to the following samples: Method: EPA 624

F63774-7, F63774-8, F63774-9, F63774-10, F63774-11, F63774-12

CAS No.	Surrogate Recoveries	MS	MSD	F63774-9	Limits
1868-53-7	Dibromofluoromethane	104%	102%	105%	87-116%
17060-07-0	1,2-Dichloroethane-D4	93%	92%	92%	76-127%
2037-26-5	Toluene-D8	99%	99%	99%	86-112%
460-00-4	4-Bromofluorobenzene	92%	93%	97%	84-120%

APPENDIX C

FIELD DATA

Well Number	DTW
UST645-MW01	14.56
UST645-MW02	15.35
UST645-MW03	15.72
UST645-MW04	8.28
UST645-MW05	16.31
UST645-MW06	17.48
UST645-MW07	18.73
UST645-MW08	16.00
UST645-MW09	20.14
UST645-MW10	18.21
UST645-MW11	19.99
UST645-MW12	17.74
UST645-MW13	Surging*
UST645-MW14	18.48
UST645-MW15	14.05
UST645-MW16	18.85
UST645-MW17	Surging*
UST645-MW18	19.22
UST645-MW19	18.67
UST645-MW20	18.69
UST645-MW21	13.46
UST645-MW22	18.70
UST645-MW23	12.82
UST645-MW24	12.03**
UST645-MW25	15.88
UST645-MW26	17.55
UST645-MW27	20.53
UST645-MW28	16.95
UST645-MW29	17.21
UST645-MW30	20.13
UST645-MW31	19.72
UST645-MW32	19.92

* - Well surging at the time of Water Level Readings system was shut down prior to sampling which allowed the wells to stop surging.

** - Well went dry after the system was shutdown

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO.	
				SAMPLE NO. UST645-MW 01	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/14/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 13:56	
PHONE: 910-451-2390		WEATHER: Clear			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailor			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	6.56	4.41	4.40	4.40		(STD)
Specific Conductivity	0.125	0.151	0.151	0.151		(m S/cm ^o)
Turbidity (Turb)	1.5	0	0	0		(NTU)
Dissolved Oxygen (DO)	8.67	8.58	8.57	8.59		(mg/l)
Temperature (Temp)	26.30	24.54	24.48	24.34		(°C)
ORP	245.8	358.3	355.4	354.4		

Depth to Bottom	290.64	(In) (Minus)	Depth to Water	174.72	(In) =	115.92	HT (in)
Depth to Bottom	24.22	(Ft) (Minus)	Depth to Water	14.56	(Ft) =	9.66	HT (ft)

d = 4	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	II	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			115.92	1	3.14	1456	.0043	6.43	49.8	49
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 01	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
Clear water			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. MW-02	
				SAMPLE NO. UST645-MW	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/14/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 1405	
PHONE: 910-451-2390		WEATHER: Sunny ~85°			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailer			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	4.78	4.27	4.28	4.32		(STD)
Specific Conductivity	0.129	0.118	0.119	0.119		(m S/cm ²)
Turbidity (Turb)	225.4	52.4	51.9	52.1		(NTU)
Dissolved Oxygen (DO)	7.81	7.31	7.32	7.31		(mg/l)
Temperature (Temp)	23.31	22.48	22.45	22.52		(°C)
ORP	73.2	56.8	56.8	55.8		

Depth to Bottom	291.96	(In) (Minus)	Depth to Water	184.20	(In) =	107.76	HT (in)
Depth to Bottom	24.32	(Ft) (Minus)	Depth to Water	15.35	(Ft) =	8.98	HT (ft)

d = 4	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			107.76	1	3.14	1353	.0043	5.8	17.5	18
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 02	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
light rusty brown clear water			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. <i>mw03</i>	
				SAMPLE NO. UST645-MW <i>03</i>	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE <i>10/14/08</i> <i>10/16/08</i>	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME <i>1645</i>	
PHONE: 910-451-2390		WEATHER: <i>SUNNY 70'S</i>			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailor			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg	
PH	<i>5.06</i>	<i>5.27</i>	<i>5.27</i>	<i>5.27</i>		(STD)
Specific Conductivity	<i>0.181</i>	<i>0.166</i>	<i>0.166</i>	<i>0.166</i>		(m S/cm ^o)
Turbidity (Turb)	<i>201.5</i>	<i>5.7</i>	<i>5.5</i>	<i>5.4</i>		(NTU)
Dissolved Oxygen (DO)	<i>7.82</i>	<i>7.28</i>	<i>7.29</i>	<i>7.29</i>		(mg/l)
Temperature (Temp)	<i>22.39</i>	<i>21.45</i>	<i>21.44</i>	<i>21.44</i>		(°C)
ORP	<i>24.3</i>	<i>51.6</i>	<i>51.0</i>	<i>50.9</i>		

Depth to Bottom	<i>301.80</i>	(In) (Minus)	Depth to Water	<i>188.64</i>	(In) =	<i>113.16</i>	HT (in)
Depth to Bottom	<i>25.15</i>	(Ft) (Minus)	Depth to Water	<i>15.72</i>	(Ft) =	<i>9.43</i>	HT (ft)

d = <i>4</i>	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			<i>113.16</i>	1	3.14	<i>1421</i>	.0043	<i>6.1</i>	<i>18.3</i>	<i>19</i>
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW <i>03</i>	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

10/15/08
 Organic growth in well ~~Purged out~~. Organic growth like non pumpable sludge, could not purge. NO SAMPLE or Field Readings Taken
10/16/08 - ~~the~~ vac well Removed thick organic allowed to

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

OTHER: ☐

Settle AND Purged AND SAMPLE

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. MW04	
				SAMPLE NO. UST645-MW 04	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/16/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 1030	
PHONE: 910-451-2390		WEATHER: Sunny ~75°			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailor			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	6.40					(STD)
Specific Conductivity	0.114					(m S/cm ²)
Turbidity (Turb)	1304.3					(NTU)
Dissolved Oxygen (DO)	5.34					(mg/l)
Temperature (Temp)	20.05					(°C)
ORP	-11.9					

Depth to Bottom	191.76	(In) (Minus)	Depth to Water	99.36	(In) =	92.40	HT (in)
Depth to Bottom	15.98	(Ft) (Minus)	Depth to Water	8.28	(Ft) =	7.70	HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			92.40	1	3.14	290	.0043	1.2	3.7	1.2
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW04	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

Initially very mut. dirty - 1 particulates
After 12 minutes became more clear
Low volume well - dry after one volume - allowed
to recharge & sample

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

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. <i>MW-05</i>	
				SAMPLE NO. UST645-MW05	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE <i>10/16/08</i>	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME <i>1330</i>	
PHONE: 910-451-2390		WEATHER: <i>SUNNY 80°</i>			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailer			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	~~5~~	
PH	<i>6.86</i>	<i>5.02</i>	<i>5.76</i>	<i>4.75</i>		(STD)
Specific Conductivity	<i>0.280</i>	<i>0.198</i>	<i>0.193</i>	<i>0.193</i>		(m S/cm°)
Turbidity (Turb)	<i>932.4</i>	<i>131.9</i>	<i>25.0</i>	<i>23.1</i>		(NTU)
Dissolved Oxygen (DO)	<i>1.85</i>	<i>1.19</i>	<i>2.05</i>	<i>1.96</i>		(mg/l)
Temperature (Temp)	<i>20.70</i>	<i>19.95</i>	<i>19.96</i>	<i>19.55</i>		(°C)
ORP	<i>123.9</i>	<i>199.8</i>	<i>214.0</i>	<i>215.4</i>		

Depth to Bottom	<i>284.16</i>	(In) (Minus)	Depth to Water	<i>195.72</i>	(In) =	<i>88.44</i>	HT (in)
Depth to Bottom	<i>23.68</i>	(Ft) (Minus)	Depth to Water	<i>16.31</i>	(Ft) =	<i>7.37</i>	HT (ft)

d = <u>2</u>	MEASUREMENTS (IN INCHES)										
r = <u>1</u>	Multiply Together					Vol.					
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged	
TOP			<i>88.44</i>	1	3.14	<i>278</i>	.0043	<i>1.2</i>	<i>3.6</i>	<i>4</i>	
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW05	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method *Purge water started*
Dirt Purged CLEAN

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

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. MW006	
				SAMPLE NO. UST645-MW 06	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/15/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 1353	
PHONE: 910-451-2390		WEATHER: Sunny ~ 80°			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailor			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	0.05	4.25	4.26	4.26		(STD)
Specific Conductivity	0.126	0.108	0.108	0.108		(m S/cm°)
Turbidity (Turb)	26.5	3.9	4.5	5.2		(NTU)
Dissolved Oxygen (DO)	3.76	1.94	1.93	1.91		(mg/l)
Temperature (Temp)	22.37	22.90	22.92	22.94		(°C)
ORP	12.0	42.2	42.3	42.4		

Depth to Bottom	302.40	(In) (Minus)	Depth to Water	209.76	(In)	=	92.64	HT (in)
Depth to Bottom	25.20	(Ft) (Minus)	Depth to Water	17.48	(Ft)	=	7.72	HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			92.64	1	3.14	291	.0043	1.3	3.8	4
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 06	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

rusty colored-clear
turned clear no tint after 3-5 minutes

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

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. <i>14007</i>	
				SAMPLE NO. UST645-MW <i>07</i>	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE <i>10/16/08</i>	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME <i>1115</i>	
PHONE: 910-451-2390		WEATHER: <i>Sunny 70's</i>			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailer			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	~~Avg~~	
PH	<i>3.12</i>	<i>2.79</i>	<i>2.76</i>	<i>2.77</i>		(STD)
Specific Conductivity	<i>4.341</i>	<i>4.342</i>	<i>4.348</i>	<i>3.349</i>		(m S/cm ^o)
Turbidity (Turb)	<i>639.4</i>	<i>160.2</i>	<i>27.1</i>	<i>27.6</i>		(NTU)
Dissolved Oxygen (DO)	<i>3.04</i>	<i>3.34</i>	<i>3.33</i>	<i>3.33</i>		(mg/l)
Temperature (Temp)	<i>22.02</i>	<i>22.54</i>	<i>22.72</i>	<i>22.76</i>		(°C)
ORP	<i>365.0</i>	<i>378.5</i>	<i>380.2</i>	<i>380.2</i>		

Depth to Bottom	<i>285.60</i>	(In) (Minus)	Depth to Water	<i>224.76</i>	(In)	=	<i>60.84</i>	HT (in)
Depth to Bottom	<i>23.80</i>	(Ft) (Minus)	Depth to Water	<i>18.73</i>	(Ft)	=	<i>5.07</i>	HT (ft)

d = <u>2</u>	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			<i>60.84</i>	1	3.14	<i>191</i>	.0043	<i>0.8</i>	<i>2.5</i>	<i>3</i>
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW <i>07</i>	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method <i>Analyses in purge water.</i>			
<i>ORGANIC growth in well purged out</i>			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. MW08	
				SAMPLE NO. UST645-MW 08	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/15/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 1630	
PHONE: 910-451-2390		WEATHER: CLEAR 70-80			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailor			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg	
PH	3.98	3.75	3.75	3.73		(STD)
Specific Conductivity	0.264	0.262	0.259	0.241		(m S/cm ^o)
Turbidity (Turb)	26.4	51.7	49.2	48.7		(NTU)
Dissolved Oxygen (DO)	5.94	6.05	6.01	6.02		(mg/l)
Temperature (Temp)	19.47	19.99	20.02	20.04		(°C)
ORP	56.6	104.9	102.7	97.2		

Depth to Bottom	312.24	(In) (Minus)	Depth to Water	192.00	(In)	=	120.24	HT (in)
Depth to Bottom	26.02	(Ft) (Minus)	Depth to Water	16.00	(Ft)	=	10.02	HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			120.24	1	3.14	378	.0043	1.6	4.9	5
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 08	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
Clear water			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
		PROJECT NAME: Bldg 645	
		WELL NO. MW09	
		SAMPLE NO. UST645-MW	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin	DATE 10/14/08
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin	TIME 1621 PM 1708
PHONE: 910-451-2390		WEATHER: CL-42 70'S	
LEL:			Well Locked: [X] Yes
PID:		Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	5.08	5.06	5.05	5.05		(STD)
Specific Conductivity	2.319	2.334	2.333	2.334		(m S/cm ^o)
Turbidity (Turb)	22.2	20.0	18.5	18.9		(NTU)
Dissolved Oxygen (DO)	2.23	0.83	0.80	0.81		(mg/l)
Temperature (Temp)	21.81	20.58	20.59	20.59		(°C)
ORP	39.3	40.1	40.1	40.3		

Depth to Bottom	635.52	(In) (Minus)	Depth to Water	241.68	(In)	=	393.84	HT (in)
Depth to Bottom	52.96	(Ft) (Minus)	Depth to Water	20.14	(Ft)	=	32.82	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)										
r = 1 Multiply Together						Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	II	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			393.84	1	3.14	1237	.0043	5.3	16.0	16
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 09	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

Clear water

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

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO.	
				SAMPLE NO. UST645-MW10	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/16/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 1008	
PHONE: 910-451-2390		WEATHER: Sunny 20°S			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailer			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	7.24	6.44	6.46	6.44		(STD)
Specific Conductivity	2.185	2.797	2.838	2.862		(m S/cm ²)
Turbidity (Turb)	39.1	51.3	4.1	0.9		(NTU)
Dissolved Oxygen (DO)	4.94	2.91	3.27	3.33		(mg/l)
Temperature (Temp)	20.81	20.83	20.93	20.98		(°C)
ORP	-41.2	-87.2	-87.2	-86.3		

Depth to Bottom	597.60	(In) (Minus)	Depth to Water	218.52	(In)	=	379.08	HT (in)
Depth to Bottom	47.80	(Ft) (Minus)	Depth to Water	18.21	(Ft)	=	31.59	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)										
r = 1 Multiply Together						Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			379.08	1	3.14	1190	.0043	5.1	15.4	16
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW10	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method AIR BUBBLES in Purse WATER			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. MW11	
				SAMPLE NO. UST645-MW 11	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/15/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 0945	
PHONE: 910-451-2390		WEATHER: CLEAR 70°			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailor			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	3.87	4.03	4.03	4.03		(STD)
Specific Conductivity	0.691	0.965	0.967	0.967		(m S/cm ²)
Turbidity (Turb)	54.8	27.8	29.1	30.1		(NTU)
Dissolved Oxygen (DO)	2.23	1.84	1.86	1.87		(mg/l)
Temperature (Temp)	18.70	18.61	18.62	18.62		(°C)
ORP	72.3	53.1	53.3	53.3		

Depth to Bottom	529.20	(In) (Minus)	Depth to Water	239.88	(In)	=	289.32	HT (in)
Depth to Bottom	44.10	(Ft) (Minus)	Depth to Water	19.99	(Ft)	=	24.11	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)											
r = 1 Multiply Together						Vol.					
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			289.32	1	3.14	908	.0043	3.9		11.7	12
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 11	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

Clear water

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

WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
		PROJECT NAME: Bldg 645	
		WELL NO. MW12	
		SAMPLE NO. UST645-MW	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin	DATE 10/16/08
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin	TIME 1535
PHONE: 910-451-2390		WEATHER:	
LEL:		Well Locked: [X] Yes	
PID:		Sampling Device: Bailor ☐ No	

FIELD MEASUREMENTS						
	1	2	3	4	Avg	
PH	3.67	3.27	3.26	3.27		(STD)
Specific Conductivity	0.435	0.436	0.436	0.436		(m S/cm ²)
Turbidity (Turb)	42.9	38.4	39.9	40.8		(NTU)
Dissolved Oxygen (DO)	6.14	5.10	5.17	5.17		(mg/l)
Temperature (Temp)	21.24	21.34	21.41	21.39		(°C)
ORP	37.4	52.9	53.4	53.7		

Depth to Bottom	455.52	(In) (Minus)	Depth to Water	212.88	(In)	=	242.64	HT (in)
Depth to Bottom	37.96	(Ft) (Minus)	Depth to Water	17.74	(Ft)	=	20.22	HT (ft)

d = 30	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			242.64	1	3.14	762	.0043	3.28	9.8	10
Middle					3.14	6857	.0043	57128.5	88.5	90
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW12	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method vac'd the well - recharged ↑ Particulates rusty brown-red cleared up before filled IL			
PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]			
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. MW13	
				SAMPLE NO. UST645-MW 13	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/15/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 0857	
PHONE: 910-451-2390		WEATHER: cool, sunny ~68°			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailor			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	3.05	3.03	2.94	3.00		(STD)
Specific Conductivity	0.3670	0.6490	0.651	0.650		(m S/cm ²)
Turbidity (Turb)	399.9	80.8	11.9	18.4		(NTU)
Dissolved Oxygen (DO)	9.31	8.67	8.70	8.72		(mg/l)
Temperature (Temp)	17.64	18.29	18.27	18.31		(°C)
ORP	86.0	169.9	181.3	175.0		

Depth to Bottom	441.24	(In) (Minus)	Depth to Water	162.00	(In)	=	279.24	HT (in)
Depth to Bottom	36.77	(Ft) (Minus)	Depth to Water	13.50	(Ft)	=	23.27	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)										
r = 1 Multiply Together						Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
	TOP		279.24	1	3.14	877	.0043	3.8	11.3	12
	Middle				3.14		.0043			
	Bottom				3.14		.0043			
	Total				3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 13	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

Clear-hazy light brown initially
became more clear overtime

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

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. <i>MW14</i>	
				SAMPLE NO. UST645-MW14	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE <i>10/16/08</i>	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME <i>1159</i>	
PHONE: 910-451-2390		WEATHER: <i>Sunny 70's</i>			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailer			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg	
PH	<i>5.60</i>	<i>6.23</i>	<i>6.48</i>	<i>6.50</i>		(STD)
Specific Conductivity	<i>2.616</i>	<i>2.272</i>	<i>1.808</i>	<i>1.784</i>		(m S/cm ^o)
Turbidity (Turb)	<i>920.4</i>	<i>141.0</i>	<i>62.8</i>	<i>5.5</i>		(NTU)
Dissolved Oxygen (DO)	<i>0.97</i>	<i>1.80</i>	<i>2.25</i>	<i>3.10</i>		(mg/l)
Temperature (Temp)	<i>22.83</i>	<i>22.40</i>	<i>22.14</i>	<i>22.36</i>		(°C)
ORP	<i>-111.1</i>	<i>-111.8</i>	<i>130.4</i>	<i>-122.4</i>		

Depth to Bottom	<i>388.20</i>	(In) (Minus)	Depth to Water	<i>221.76</i>	(In)	=	<i>166.44</i>	HT (in)
Depth to Bottom	<i>32.35</i>	(Ft) (Minus)	Depth to Water	<i>18.48</i>	(Ft)	=	<i>13.87</i>	HT (ft)

d = <u>2</u>	MEASUREMENTS (IN INCHES)										
r = 1	Multiply Together					Vol.					
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP			<i>166.44</i>	1	3.14	<i>523</i>	.0043	<i>2.2</i>		<i>6.7</i>	<i>7</i>
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW <i>14</i>	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method *ORGANIC growth in*
Well purged out BUBBLES in purge water

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

WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709
		PROJECT NAME: Bldg 645
		WELL NO. <i>MW 15</i>
		SAMPLE NO. UST645-MW <i>15</i>
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin
PHONE: 910-451-2390		DATE <i>10/15/08</i>
WEATHER: <i>Clear 80's</i>		TIME <i>11:00</i>
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer ☐ No	

FIELD MEASUREMENTS						
	1	2	3	4	<i>Avg.</i>	
PH	<i>7.36</i>	<i>6.66</i>	<i>7.08</i>	<i>7.08</i>		(STD)
Specific Conductivity	<i>2.709</i>	<i>2.804</i>	<i>2.835</i>	<i>2.835</i>		(m S/cm ^o)
Turbidity (Turb)	<i>18.4</i>	<i>24.2</i>	<i>39.1</i>	<i>24.3</i>		(NTU)
Dissolved Oxygen (DO)	<i>9.84</i>	<i>9.79</i>	<i>10.19</i>	<i>9.79</i>		(mg/l)
Temperature (Temp)	<i>22.50</i>	<i>24.14</i>	<i>23.80</i>	<i>23.80</i>		(°C)
ORP	<i>173.7</i>	<i>214.0</i>	<i>226.6</i>	<i>220.6</i>		

Depth to Bottom	<i>1026.00</i>	(In) (Minus)	Depth to Water	<i>168.60</i>	(In) =	<i>857.40</i>	HT (in)
Depth to Bottom	<i>85.50</i>	(Ft) (Minus)	Depth to Water	<i>14.05</i>	(Ft) =	<i>71.45</i>	HT (ft)

d = <u>2</u>	MEASUREMENTS (IN INCHES)									
r = <u>1</u>	Multiply Together					Vol.				
d/2 = <u>1</u>	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			<i>857.40</i>	<i>1</i>	<i>3.14</i>	<i>2692</i>	<i>.0043</i>	<i>11.6</i>	<i>34.7</i>	<i>35</i>
Middle					<i>3.14</i>		<i>.0043</i>			
Bottom					<i>3.14</i>		<i>.0043</i>			
Total					<i>3.14</i>		<i>.0043</i>			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW <i>15</i>	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

10/14/08 Bubble over surging NO SAMPLE TAKEN, NO READINGS
10/15/08 - CLEAR water. Well stopped surging sampled

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

WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
		PROJECT NAME: Bldg 645	
		WELL NO. <i>MW 16</i>	
		SAMPLE NO. UST645-MW <i>16</i>	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin	DATE <i>10/15/08</i>
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin	TIME <i>1600</i>
PHONE: 910-451-2390		WEATHER: <i>Clear</i>	
LEL:			Well Locked: ☒ Yes
PID:		Sampling Device: Bailer	☐ No

FIELD MEASUREMENTS						
	1	2	3	4	<i>Avg</i>	
PH	<i>6.28</i>	<i>6.44</i>	<i>6.50</i>	<i>6.50</i>		(STD)
Specific Conductivity	<i>2.353</i>	<i>2.360</i>	<i>2.360</i>	<i>2.360</i>		(m S/cm ^o)
Turbidity (Turb)	<i>17.1</i>	<i>17.6</i>	<i>8.0</i>	<i>8.6</i>		(NTU)
Dissolved Oxygen (DO)	<i>0.70</i>	<i>0.53</i>	<i>0.51</i>	<i>0.51</i>		(mg/l)
Temperature (Temp)	<i>21.74</i>	<i>21.87</i>	<i>22.29</i>	<i>22.29</i>		(°C)
ORP	<i>-136.4</i>	<i>-142.1</i>	<i>-142.1</i>	<i>-142.2</i>		

Depth to Bottom	<i>974.28</i>	(In) (Minus)	Depth to Water	<i>226.20</i>	(In)	=	<i>748.08</i>	HT (in)
Depth to Bottom	<i>81.19</i>	(Ft) (Minus)	Depth to Water	<i>18.85</i>	(Ft)	=	<i>62.34</i>	HT (ft)

d = <u>2</u>	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	II	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			<i>748.08</i>	1	3.14	<i>2345</i>	.0043	<i>10.1</i>	<i>30.3</i>	<i>30</i>
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW <i>16</i>	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

Clear water

PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: ☒ Yes
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. <i>MW 17</i>	
				SAMPLE NO. UST645-MW <i>17</i>	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE <i>10/15/08</i>	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME <i>11:53</i>	
PHONE: 910-451-2390		WEATHER: <i>Clear 80's</i>			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailer			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	<i>7.16</i>	<i>7.01</i>	<i>6.99</i>	<i>6.99</i>		(STD)
Specific Conductivity	<i>1.899</i>	<i>1.893</i>	<i>1.882</i>	<i>1.882</i>		(m S/cm ^o)
Turbidity (Turb)	<i>5.5</i>	<i>38.2</i>	<i>4.2</i>	<i>4.2</i>		(NTU)
Dissolved Oxygen (DO)	<i>2.59</i>	<i>2.63</i>	<i>2.63</i>	<i>2.63</i>		(mg/l)
Temperature (Temp)	<i>24.31</i>	<i>23.77</i>	<i>23.67</i>	<i>23.67</i>		(°C)
ORP	<i>224.5</i>	<i>247.8</i>	<i>267.4</i>	<i>267.4</i>		

Depth to Bottom	<i>952.32</i>	(In) (Minus)	Depth to Water	<i>170.32</i>	(In) =	<i>781.80</i>	HT (in)
Depth to Bottom	<i>79.36</i>	(Ft) (Minus)	Depth to Water	<i>14.21</i>	(Ft) =	<i>65.15</i>	HT (ft)

d = <u>2</u>	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			<i>781.80</i>	1	3.14	<i>2455</i>	.0043	<i>10.6</i>	<i>31.7</i>	<i>32</i>
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW <i>17</i>	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
<i>Clear water</i>			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
		PROJECT NAME: Bldg 645	
		WELL NO. MW18	
		SAMPLE NO. UST645-MW 18	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin	DATE 10/15/08
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin	TIME 1437
PHONE: 910-451-2390		WEATHER: CLEAR 80'S	
LEL:			Well Locked: [X] Yes
PID:		Sampling Device: Bailor	☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	11.78	11.66	11.65	11.65		(STD)
Specific Conductivity	6.763	6.579	6.748	6.750		(m S/cm ^o)
Turbidity (Turb)	1.6	0.0	0.0	0.0		(NTU)
Dissolved Oxygen (DO)	6.23	5.66	5.64	5.63		(mg/l)
Temperature (Temp)	23.63	22.25	22.29	22.29		(°C)
ORP	-89.1	-14.3	-14.2	-14.3		

Depth to Bottom	926.28	(In) (Minus)	Depth to Water	230.64	(In)	=	695.64	HT (in)
Depth to Bottom	77.19	(Ft) (Minus)	Depth to Water	19.22	(Ft)	=	57.97	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)										
r = 1 Multiply Together						Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			695.64	1	3.14	2184	.0043	9.4	28.2	29
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW18	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
clear water			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. <i>mw19</i>	
				SAMPLE NO. UST645-MW <i>19</i>	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE <i>10/15/08</i>	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME <i>15:21</i>	
PHONE: 910-451-2390		WEATHER: <i>Clear 80's</i>			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailer			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	<i>Avg</i>	
PH	<i>3.96</i>	<i>3.32</i>	<i>3.23</i>	<i>3.23</i>		(STD)
Specific Conductivity	<i>0.631</i>	<i>0.655</i>	<i>0.617</i>	<i>0.667</i>		(m S/cm ^o)
Turbidity (Turb)	<i>148.7</i>	<i>104.6</i>	<i>20.9</i>	<i>32.6</i>		(NTU)
Dissolved Oxygen (DO)	<i>4.32</i>	<i>4.34</i>	<i>4.38</i>	<i>4.38</i>		(mg/l)
Temperature (Temp)	<i>27.53</i>	<i>28.77</i>	<i>29.10</i>	<i>29.10</i>		(°C)
ORP	<i>328.2</i>	<i>364.8</i>	<i>374.4</i>	<i>373.9</i>		

Depth to Bottom	<i>465.80</i>	(In) (Minus)	Depth to Water	<i>284.04</i>	(In) =	<i>191.76</i>	HT (in)
Depth to Bottom	<i>34.65</i>	(Ft) (Minus)	Depth to Water	<i>18.67</i>	(Ft) =	<i>15.98</i>	HT (ft)

d = <u>2</u>	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			<i>191.76</i>	1	3.14	<i>602</i>	.0043	<i>2.6</i>	<i>7.8</i>	<i>8</i>
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW <i>19</i>	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
<i>10/15/08 MUDDY WATER coming out.</i>			
<i>Cloudy water</i>			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709
		PROJECT NAME: Bldg 645
		WELL NO. <i>MW 20</i>
		SAMPLE NO. UST645-MW <i>20</i>
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin
PHONE: 910-451-2390		DATE <i>10/15/08</i>
WEATHER: <i>Clear 80's</i>		TIME <i>1:45 PM</i>
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer ☐ No	

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	<i>7.25</i>	<i>6.79</i>	<i>6.46</i>	<i>6.41</i>		(STD)
Specific Conductivity	<i>1.016</i>	<i>1.187</i>	<i>1.625</i>	<i>1.625</i>		(m S/cm ^o)
Turbidity (Turb)	<i>2.5</i>	<i>2.2</i>	<i>1.9</i>	<i>1.9</i>		(NTU)
Dissolved Oxygen (DO)	<i>3.72</i>	<i>2.66</i>	<i>1.57</i>	<i>1.57</i>		(mg/l)
Temperature (Temp)	<i>23.95</i>	<i>23.77</i>	<i>23.75</i>	<i>23.75</i>		(°C)
ORP	<i>148.9</i>	<i>18.6</i>	<i>-78</i>	<i>-169</i>		

Depth to Bottom	<i>592.80</i>	(In) (Minus)	Depth to Water	<i>224.28</i>	(In) =	<i>368.52</i>	HT (in)
Depth to Bottom	<i>49.40</i>	(Ft) (Minus)	Depth to Water	<i>18.69</i>	(Ft) =	<i>30.71</i>	HT (ft)

d = <i>2</i>	MEASUREMENTS (IN INCHES)									
r = <i>1</i>	Multiply Together					Vol.				
d/2 = <i>1</i>	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			<i>368.52</i>	<i>1</i>	<i>3.14</i>	<i>1157</i>	<i>.0043</i>	<i>5.0</i>	<i>14.9</i>	<i>15</i>
Middle					<i>3.14</i>		<i>.0043</i>			
Bottom					<i>3.14</i>		<i>.0043</i>			
Total					<i>3.14</i>		<i>.0043</i>			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW <i>20</i>	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method			
<i>Clear water.</i>			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. MW21	
				SAMPLE NO. UST645-MW 21	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/16/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME	
PHONE: 910-451-2390		WEATHER:			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailer			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	7.18	6.93	6.94	6.93		(STD)
Specific Conductivity	0.146	0.152	0.152	0.152		(m S/cm°)
Turbidity (Turb)	0.4	-1.7	-1.6	-1.6		(NTU)
Dissolved Oxygen (DO)	6.62	4.01	4.00	4.00		(mg/l)
Temperature (Temp)	18.27	18.07	18.07	18.08		(°C)
ORP	15.4	8.1	8.1	8.2		

Depth to Bottom	864.44	(In) (Minus)	Depth to Water	161.52	(In) =	802.92	HT (in)
Depth to Bottom	80.37	(Ft) (Minus)	Depth to Water	13.46	(Ft) =	66.91	HT (ft)

d = 2	MEASUREMENTS (IN INCHES)										
r = 1	Multiply Together					Vol.					
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged	
TOP			802.92	1	3.14	2521	.0043	10.8	32.5	33	
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 21	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. <i>NW22</i>	
				SAMPLE NO. UST645-MW 22	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE <i>10/15/04</i>	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME <i>8:51 AM</i>	
PHONE: 910-451-2390		WEATHER: <i>Clear 80's</i>			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailer			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	<i>Avg</i>	
PH	<i>6.64</i>	<i>6.87</i>	<i>6.40</i>	<i>6.74</i>		(STD)
Specific Conductivity	<i>3.033</i>	<i>3.020</i>	<i>3.017</i>	<i>3.013</i>		(m S/cm ^o)
Turbidity (Turb)	<i>13.3</i>	<i>14.4</i>	<i>11.8</i>	<i>11.0</i>		(NTU)
Dissolved Oxygen (DO)	<i>8.01</i>	<i>9.54</i>	<i>9.51</i>	<i>9.42</i>		(mg/l)
Temperature (Temp)	<i>26.17</i>	<i>17.80</i>	<i>18.04</i>	<i>18.93</i>		(°C)
ORP	<i>187.6</i>	<i>230.2</i>	<i>225.2</i>	<i>209.3</i>		

Depth to Bottom	<i>960.0</i>	(In) (Minus)	Depth to Water	<i>224.40</i>	(In)	=	<i>735.60</i>	HT (in)
Depth to Bottom	<i>80.00</i>	(Ft) (Minus)	Depth to Water	<i>18.70</i>	(Ft)	=	<i>61.3</i>	HT (ft)

d = <u>2</u>	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			<i>735.60</i>	1	3.14	<i>2310</i>	.0043	<i>9.9</i>	<i>29.8</i>	<i>30</i>
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 22	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

<i>Clear & Sunny</i>			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709
		PROJECT NAME: Bldg 645
		WELL NO. <i>mw 23</i>
		SAMPLE NO. UST645-MW <i>23</i>
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin
PHONE: 910-451-2390		DATE <i>10/15/08</i>
WEATHER: <i>Clear 80's</i>		TIME
LEL:		Well Locked: ☒ Yes
PID:	Sampling Device: Bailer ☐ No	

FIELD MEASUREMENTS						
	1	2	3	4	<i>Avg</i>	
PH	<i>4.5</i>	<i>4.5</i>	<i>4.45</i>	<i>4.41</i>		(STD)
Specific Conductivity	<i>0.104</i>	<i>0.104</i>	<i>0.104</i>	<i>0.104</i>		(m S/cm ^o)
Turbidity (Turb)	<i>229.2</i>	<i>229.8</i>	<i>199.3</i>	<i>190.6</i>		(NTU)
Dissolved Oxygen (DO)	<i>8.90</i>	<i>8.85</i>	<i>8.83</i>	<i>8.77</i>		(mg/l)
Temperature (Temp)	<i>22.67</i>	<i>22.73</i>	<i>22.87</i>	<i>23.12</i>		(°C)
ORP	<i>331.6</i>	<i>333.3</i>	<i>334.6</i>	<i>330.5</i>		

Depth to Bottom	<i>352.20</i>	(In) (Minus)	Depth to Water	<i>153.84</i>	(In)	=	<i>198.36</i>	HT (in)
Depth to Bottom	<i>29.35</i>	(Ft) (Minus)	Depth to Water	<i>12.82</i>	(Ft)	=	<i>16.53</i>	HT (ft)

d = <i>2</i>	MEASUREMENTS (IN INCHES)									
r = <i>1</i>	Multiply Together					Vol.				
d/2 = <i>1</i>	BOTTOM	TOP	Layer Thickness	r ²	II	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			<i>198.36</i>	<i>1</i>	<i>3.14</i>	<i>623</i>	<i>.0043</i>	<i>2.7</i>	<i>8.0</i>	<i>8</i>
Middle					<i>3.14</i>		<i>.0043</i>			
Bottom					<i>3.14</i>		<i>.0043</i>			
Total					<i>3.14</i>		<i>.0043</i>			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW <i>23</i>	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method			
<i>cloudy water</i>			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: ☒
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. <i>MW 24</i>	
				SAMPLE NO. UST645-MW24	
PROJECT LOCATION: Camp Lejeune			LOGGER: Mark Martin		DATE <i>10/14/08</i>
PROJECT CONTACT: Mark Martin			SAMPLER: Mark Martin		TIME
PHONE: 910-451-2390			WEATHER:		
LEL:					Well Locked: [X] Yes
PID:			Sampling Device: Bailor		☐ No

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

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

d = <u>2</u> MEASUREMENTS (IN INCHES)										
r = <u>1</u> Multiply Together										
d/2 = <u>1</u>	BOTTOM	TOP	Layer Thickness	r ²	Π	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
VOC 602	UST645-MW	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

10/14/08 DRY NO WATER NO SAMPLE TAKEN, NO Field READINGS
10/15/08 DRY NO WATER, NO SAMPLE TAKEN, NO Field READINGS
10/16/08 DRY NO SAMPLE or Field READINGS

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

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. MW25	
				SAMPLE NO. UST645-MW	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/14/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 1500	
PHONE: 910-451-2390		WEATHER: Sunny ~85°			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailer			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	4.02	3.61	3.62	3.62		(STD)
Specific Conductivity	0.140	0.137	0.137	0.137		(m S/cm°)
Turbidity (Turb)	39.3	52.7	54.1	52.9		(NTU)
Dissolved Oxygen (DO)	6.14	5.59	5.58	5.57		(mg/l)
Temperature (Temp)	23.31	22.9	22.85	22.87		(°C)
ORP	74.2	84.8	84.9	85.1		

Depth to Bottom	280.56	(In) (Minus)	Depth to Water	190.56	(In)	=	90.00	HT (in)
Depth to Bottom	23.38	(Ft) (Minus)	Depth to Water	15.88	(Ft)	=	7.5	HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			90.00	1	3.14	283	.0043	1.2	3.6	4
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 25	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
clear - very slight tint			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709
		PROJECT NAME: Bldg 645
		WELL NO. MW-26
		SAMPLE NO. UST645-MW#26/26D
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin
PHONE: 910-451-2390		WEATHER: Sunny 80's
LEL:		Well Locked: [X] Yes
PID:		Sampling Device: Bailer ☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	7.48	6.66	6.69	6.69		(STD)
Specific Conductivity	0.998	0.996	0.999	0.991		(m S/cm ²)
Turbidity (Turb)	10.9	6.7	9.2	0.1		(NTU)
Dissolved Oxygen (DO)	0.47	1.46	1.44	1.45		(mg/l)
Temperature (Temp)	26.32	19.57	19.50	19.49		(°C)
ORP	-114.1	-129.6	-131.7	-132.8		

Depth to Bottom	964.44	(In) (Minus)	Depth to Water	210.60	(In)	=	753.84	HT (in)
Depth to Bottom	98.37	(Ft) (Minus)	Depth to Water	17.55	(Ft)	=	62.82	HT (ft)

d = 02	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	II	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			753.84	1	3.14	2367	.0043	10.2	30.5	31
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW#26	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method Small Bubbles in Purge Water.			
Duplicate Sample UST645-MW 26D			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. <i>MW 27</i>	
				SAMPLE NO. UST645-MW <i>27</i>	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE <i>10/15/08</i>	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME <i>1415</i>	
PHONE: 910-451-2390		WEATHER: <i>SUNNY 80°S</i>			
LEL:				Well Locked: ☒ Yes	
PID:		Sampling Device: Bailor			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	~~Ave.~~	
PH	<i>7.48</i>	<i>7.03</i>	<i>7.03</i>	<i>7.03</i>		(STD)
Specific Conductivity	<i>0.453</i>	<i>0.417</i>	<i>0.417</i>	<i>0.425</i>		(m S/cm ^c)
Turbidity (Turb)	<i>0.2</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>		(NTU)
Dissolved Oxygen (DO)	<i>2.94</i>	<i>3.40</i>	<i>3.31</i>	<i>2.85</i>		(mg/l)
Temperature (Temp)	<i>22.80</i>	<i>21.82</i>	<i>21.75</i>	<i>21.82</i>		(°C)
ORP	<i>51.3</i>	<i>116.7</i>	<i>117.7</i>	<i>98.1</i>		

Depth to Bottom	<i>973.68</i>	(In) (Minus)	Depth to Water	<i>246.36</i>	(In)	=	<i>727.32</i>	HT (in)
Depth to Bottom	<i>81.14</i>	(Ft) (Minus)	Depth to Water	<i>20.53</i>	(Ft)	=	<i>60.61</i>	HT (ft)

d = <i>2</i>	MEASUREMENTS (IN INCHES)									
r = <i>1</i>	Multiply Together					Vol.				
d/2 = <i>1</i>	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			<i>727.32</i>	<i>1</i>	<i>3.14</i>	<i>2284</i>	<i>.0043</i>	<i>9.8</i>	<i>29.5</i>	<i>30</i>
Middle					<i>3.14</i>		<i>.0043</i>			
Bottom					<i>3.14</i>		<i>.0043</i>			
Total					<i>3.14</i>		<i>.0043</i>			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW <i>27</i>	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: ☒
OTHER: ☐			

WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
		PROJECT NAME: Bldg 645	
		WELL NO. MW28	
		SAMPLE NO. UST645-MW28	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin	DATE 10/15/08
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin	TIME 1120
PHONE: 910-451-2390		WEATHER: CLEAR 80'S	
LEL:		Well Locked: [X] Yes	
PID:		Sampling Device: Bailer ☐ No	

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	9.18	9.57	9.57	9.57		(STD)
Specific Conductivity	0.129	0.133	0.133	0.133		(m S/cm ^c)
Turbidity (Turb)	32.2	6.3	6.7	6.4		(NTU)
Dissolved Oxygen (DO)	7.26	5.68	5.67	5.65		(mg/l)
Temperature (Temp)	22.29	20.60	20.58	20.58		(°C)
ORP	20.0	27.2	26.9	26.4		

Depth to Bottom	940.44	(In) (Minus)	Depth to Water	203.40	(In)	=	737.04	HT (in)
Depth to Bottom	78.37	(Ft) (Minus)	Depth to Water	16.85	(Ft)	=	61.42	HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			737.04	1	3.14	2314	.0043	10.0	29.9	30
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 28	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709
		PROJECT NAME: Bldg 645
		WELL NO. <u>AW3 from MW29</u>
		SAMPLE NO. UST645-MW <u>3 from 29</u>
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin
PHONE: 910-451-2390		DATE <u>10/15/08</u>
WEATHER:		TIME <u>1640</u>
LEL:		Well Locked: [X] Yes
PID:	Sampling Device: Bailer ☐ No	

FIELD MEASUREMENTS						
	1	2	3	4	Avg	
PH	7.49	6.83	6.83	6.83		(STD)
Specific Conductivity	0.480	0.550	0.548	0.548		(m S/cm ²)
Turbidity (Turb)	0.1	0.0	0.8	0.8		(NTU)
Dissolved Oxygen (DO)	5.59	0.83	0.82	0.82		(mg/l)
Temperature (Temp)	21.30	19.85	20.12	20.16		(°C)
ORP	31.0	-96.7	-99.2	-101.0		

Depth to Bottom	<u>942.60</u>	(In) (Minus)	Depth to Water	<u>206.52</u>	(In) =	<u>736.08</u>	HT (in)
Depth to Bottom	<u>78.55</u>	(Ft) (Minus)	Depth to Water	<u>17.21</u>	(Ft) =	<u>61.34</u>	HT (ft)

d = <u>2</u>	MEASUREMENTS (IN INCHES)									
r = <u>1</u>	Multiply Together					Vol.				
d/2 = <u>1</u>	BOTTOM	TOP	Layer Thickness	r ²	II	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			<u>736.08</u>	1	3.14	<u>2311</u>	.0043	<u>9.9</u>	<u>29.8</u>	<u>30</u>
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW <u>29</u>	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
<u>clear</u>			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. MW30	
				SAMPLE NO. UST645-MW30	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/16/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 0900	
PHONE: 910-451-2390		WEATHER: sunny ~ 70°			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailor			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg	
PH	8.21	7.93	7.93	7.94		(STD)
Specific Conductivity	0.246	0.257	0.258	0.260		(m S/cm ²)
Turbidity (Turb)	-1.5	-1.2	-1.3	-1.3		(NTU)
Dissolved Oxygen (DO)	6.65	2.78	2.98	2.86		(mg/l)
Temperature (Temp)	17.01	18.41	18.46	18.46		(°C)
ORP	5.1	0.4	0.5	0.4		

Depth to Bottom	939.36	(In) (Minus)	Depth to Water	241.56	(In)	=	697.80	HT (in)
Depth to Bottom	78.28	(Ft) (Minus)	Depth to Water	20.13	(Ft)	=	58.15	HT (ft)

d = 2 MEASUREMENTS (IN INCHES)										
r = 1 Multiply Together						Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			697.80	1	3.14	2191	.0043	9.4	28.3	30
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 30	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

Clear

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

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO. ~~MW28~~ ²⁸ MW31	
				SAMPLE NO. UST645-MW ~~28~~ ³¹	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/15/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 1525	
PHONE: 910-451-2390		WEATHER: CLEAR 80'S			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailor			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Ave.	
PH	9.72	7.45	7.40	7.33		(STD)
Specific Conductivity	0.135	0.075	0.075	0.075		(m S/cm ²)
Turbidity (Turb)	1.9	2.4	2.5	2.5		(NTU)
Dissolved Oxygen (DO)	4.00	2.68	2.53	2.50		(mg/l)
Temperature (Temp)	23.51	22.25	22.26	22.28		(°C)
ORP	42.2	68.8	68.0	68.2		

Depth to Bottom	1200.00	(In) (Minus)	Depth to Water	236.64	(In)	=	963.36	HT (in)
Depth to Bottom	100.00	(Ft) (Minus)	Depth to Water	19.72	(Ft)	=	80.28	HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			963.36	1	3.14	3025	.0043	13.0	39.0	40
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 31	3 X 40 ml	HCL

COMMENTS: Well Sampled using Low Flow Purge Method

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

		WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
				PROJECT NAME: Bldg 645	
				WELL NO.	
				SAMPLE NO. UST645-MW32	
PROJECT LOCATION: Camp Lejeune		LOGGER: Mark Martin		DATE 10/15/08	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin		TIME 1540	
PHONE: 910-451-2390		WEATHER: Sunny 80°			
LEL:				Well Locked: [X] Yes	
PID:		Sampling Device: Bailer			☐ No

FIELD MEASUREMENTS						
	1	2	3	4	Avg.	
PH	7.52	7.07	7.01	7.00		(STD)
Specific Conductivity	0.477	0.475	0.475	0.475		(m S/cm ^o)
Turbidity (Turb)	0.0	0.0	0.0	0.0		(NTU)
Dissolved Oxygen (DO)	4.86	2.85	2.76	2.75		(mg/l)
Temperature (Temp)	22.83	21.79	21.70	21.71		(°C)
ORP	95.8	127.4	120.5	109.8		

Depth to Bottom	939.12	(In) (Minus)	Depth to Water	239.04	(In)	=	700.08	HT (in)
Depth to Bottom	78.26	(Ft) (Minus)	Depth to Water	19.92	(Ft)	=	58.34	HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP			700.08	1	3.14	2198	.0043	9.5	28.4	29
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
VOC 602	UST645-MW 32	3 X 40 ml	HCL
COMMENTS: Well Sampled using Low Flow Purge Method			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			

Camp Lejeune, NC
Project 125709

Bldg 645 Water Levels

Date: 2/27/09

Well #	DTW	DTB
UST645-MW01	16.43	24.22
UST645-MW02	17.33	24.33
UST645-MW03	17.34	25.15
UST645-MW04	5.66	19.98
UST645-MW05	15.93	23.68
UST645-MW06	16.78	25.20
UST645-MW07	18.93	23.80
UST645-MW08	16.35	26.02
UST645-MW09	15.83	52.96
UST645-MW10	18.94	49.80
UST645-MW11	22.67	44.10
UST645-MW12	12.55	37.95
UST645-MW13	23.93	36.77
UST645-MW14	19.15	32.35
UST645-MW15	18.91	85.50
UST645-MW16	19.73	81.19
UST645-MW17	18.92	79.36
UST645-MW18	20.37	77.19
UST645-MW19	19.30	34.65
UST645-MW20	19.36	49.40
UST645-MW21	14.60	80.37
UST645-MW22	19.77	80.00
UST645-MW23	17.12	29.35
UST645-MW24	12.59	18.75
UST645-MW25	16.88	23.38
UST645-MW26	18.58	80.37
UST645-MW27	21.39	81.14
UST645-MW28	18.55	78.37
UST645-MW29	18.11	78.55
UST645-MW30	20.78	78.28
UST645-MW31	20.28	100.00
UST645-MW32	20.90	78.26



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW01

SAMPLE NO.: UST645-MW01

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/02/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1200
(military time)

PHONE: 910-451-2390

WEATHER: ☐ Sunny ☒ Cloudy ☐ Rainy ☐ Snow Temperature: 40°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailer

FIELD MEASUREMENTS

	1	2	3	4		
pH	5.00	5.00	5.29	5.40		(STD)
Specific Conductivity	0.180	0.183	0.184	0.187		(m S/cm)
Turbidity (Turb)	20.2	4.5	3.3	3.7		(NTU)
Dissolved Oxygen (DO)	4.77	3.04	2.60	2.26		(mg/l)
Temperature (Temp)	17.33	18.18	18.07	18.09		(°C)
ORP	65.1	29.0	-25.5	-37.1		

Depth to Bottom	290.64	(In) (Minus)	Depth to Water	197.16	(In)	=	93.48	HT (in)
Depth to Bottom	24.22	(Ft) (Minus)	Depth to Water	16.43	(Ft)	=	7.79	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 4 MEASUREMENTS (IN INCHES)

r = 1

Multiply Together

Vol.

d/2 = 2	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14	1174	.0043	5.0		15.1	16.0
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW01	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge ☒ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ NoOrganic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 02

SAMPLE NO.: UST645-MW 02

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/02/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1130
(military time)

PHONE: 910-451-2390

WEATHER: ☐ Sunny ☒ Cloudy ☐ Rainy ☒ Snow Temperature: ~~40~~ 40 °F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailer

FIELD MEASUREMENTS

	1	2	3	4		
pH	5.33	5.52	5.60	5.65		(STD)
Specific Conductivity	0.202	0.203	0.205	0.206		(m S/cm)
Turbidity (Turb)	88.7	420.0	406.4	323.7		(NTU)
Dissolved Oxygen (DO)	3.30	2.89	2.83	2.66		(mg/l)
Temperature (Temp)	17.03	17.55	16.96	17.52		(°C)
ORP	87.4	0.0	-17.3	-40.2		

Depth to Bottom	291.96	(In) (Minus)	Depth to Water	207.96	(In) =	84.00	HT (in)
Depth to Bottom	24.33	(Ft) (Minus)	Depth to Water	17.33	(Ft) =	7.00	HT (ft)
Product in Well? ☐ Yes ☒ No							
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft) =		Product Thickness HT (ft)

d = 4	MEASUREMENTS (IN INCHES)									
r = 2	Multiply Together					Vol.				
d/2 = 2	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	1055	.0043	4.5	13.6	14.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW02	3-40ml	HCL, 4°C
COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☐ Clear ☒ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☒ No			
Odor? ☐ Yes ☒ No If yes, describe: _____			
Duplicate in Sample taken? ☐ Yes ☒ No			
PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]			
OTHER: ☐			



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 03

SAMPLE NO.: UST645-MW 03

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/02/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1030
(military time)

PHONE: 910-451-2390

WEATHER: ☐ Sunny ☐ Cloudy ☐ Rainy ☒ Snow Temperature: 30 °F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailer

FIELD MEASUREMENTS

	1	2	3	4	
pH	5.58	5.59	5.58	5.58	(STD)
Specific Conductivity	0.122	0.124	0.125	0.126	(m S/cm)
Turbidity (Turb)	31.4	10.2	7.7	4.5	(NTU)
Dissolved Oxygen (DO)	4.43	3.55	3.46	3.34	(mg/l)
Temperature (Temp)	15.76	17.49	17.45	17.39	(°C)
ORP	162.8	61.1	41.6	20.9	

Depth to Bottom	301.80	(In) (Minus)	Depth to Water	208.08	(In) =	93.72	HT (in)
Depth to Bottom	25.15	(Ft) (Minus)	Depth to Water	17.34	(Ft) =	7.81	HT (ft)
Product in Well? ☐ Yes ☒ No							
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft) =		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)										
r = 1 Multiply Together						Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	294	.0043	1.3	3.8	4.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 03	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ NoOrganic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 04

SAMPLE NO.: UST645-MW 04

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/04/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1545
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 50°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailer

FIELD MEASUREMENTS

	1	2	3	4		
pH	6.64	6.21	6.11	6.08		(STD)
Specific Conductivity	0.196	0.172	0.166	0.156		(m S/cm)
Turbidity (Turb)	9.4	13.1	13.7	13.4		(NTU)
Dissolved Oxygen (DO)	4.27	5.18	5.21	5.13		(mg/l)
Temperature (Temp)	7.77	7.94	7.85	7.74		(°C)
ORP	130.6	146.1	150.3	161.5		

Depth to Bottom	191.76	(In) (Minus)	Depth to Water	67.92	(In)	=	123.84	HT (in)
Depth to Bottom	15.96	(Ft) (Minus)	Depth to Water	5.66	(Ft)	=	10.32	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	389	.0043	1.7	5.0	5.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 04	3-40ml	HCL, 4°C
COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ No			
Odor? ☐ Yes ☒ No If yes, describe: _____			
Duplicate in Sample taken? ☐ Yes ☒ No			
PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]			
OTHER: ☐			



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 05

SAMPLE NO.: UST645-MW 05

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 2/27/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1215
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 66°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	4.94	4.81	4.67	4.61		(STD)
Specific Conductivity	0.082	0.080	0.080	0.080		(m S/cm)
Turbidity (Turb)	16.8	3.2	2.8	1.9		(NTU)
Dissolved Oxygen (DO)	1.24	0.84	0.86	0.78		(mg/l)
Temperature (Temp)	18.38	18.34	18.23	18.14		(°C)
ORP	38.8	24.9	21.7	23.8		

Depth to Bottom	284.16	(In) (Minus)	Depth to Water	191.16	(In)	=	43.00	HT (in)
Depth to Bottom	23.68	(Ft) (Minus)	Depth to Water	15.93	(Ft)	=	7.75	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1

Multiply Together

Vol.

d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	292	.0043	1.3	3.8	4.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 05	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 06

SAMPLE NO.: UST645-MW 06

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 02/27/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1410
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60 °F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	6.39	5.44	5.22	5.10		(STD)
Specific Conductivity	0.094	0.095	0.092	0.091		(m S/cm)
Turbidity (Turb)	55.3	30.6	44.2	51.0		(NTU)
Dissolved Oxygen (DO)	4.85	4.40	3.69	3.09		(mg/l)
Temperature (Temp)	19.32	18.93	18.90	18.85		(°C)
ORP	74.0	109.5	114.0	123.3		

Depth to Bottom	302.40	(In) (Minus)	Depth to Water	201.36	(In)	=	101.04	HT (in)
Depth to Bottom	25.20	(Ft) (Minus)	Depth to Water	16.78	(Ft)	=	8.42	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	317	.0043	1.4	4.1	4.5
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 06	3-40ml	HCL, 4°C
COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles is purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ No			
Odor? ☐ Yes ☒ No If yes, describe: _____			
Duplicate in Sample taken? ☐ Yes ☒ No			
PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]			
OTHER: ☐			



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW07

SAMPLE NO.: UST645-MW07

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/04/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1215
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 40°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	3.10	3.08	3.08	3.08		(STD)
Specific Conductivity	3.954	4.001	4.000	4.008		(m S/cm)
Turbidity (Turb)	46.6	5.4	2.2	0.1		(NTU)
Dissolved Oxygen (DO)	1.11	0.94	0.90	0.91		(mg/l)
Temperature (Temp)	19.69	20.48	20.49	20.45		(°C)
ORP	362.7	362.4	362.0	359.8		

Depth to Bottom	285.60	(In) (Minus)	Depth to Water	227.16	(In)	=	58.44	HT (in)
Depth to Bottom	23.80	(Ft) (Minus)	Depth to Water	18.93	(Ft)	=	4.87	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1

Multiply Together

Vol.

d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	184	.0043	0.8	2.4	2.5
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW07	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☒ Yes ☐ No Red GrowthColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 08

SAMPLE NO.: UST645-MW 08

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 02/27/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1145
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60 °F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailer

FIELD MEASUREMENTS

	1	2	3	4		
pH	4.66	4.48	4.27			(STD)
Specific Conductivity	0.181	0.136	0.153			(m S/cm)
Turbidity (Turb)	76.0	36.6	41.4			(NTU)
Dissolved Oxygen (DO)	7.06	7.10	7.86			(mg/l)
Temperature (Temp)	19.64	19.69	20.43			(°C)
ORP	97.4	99.6	114.0			

Depth to Bottom	312.24	(In) (Minus)	Depth to Water	196.20	(In) =	116.04	HT (in)
Depth to Bottom	26.02	(Ft) (Minus)	Depth to Water	16.35	(Ft) =	9.67	HT (ft)
Product in Well? ☐ Yes ☒ No							
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft) =		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)											
r = 1 Multiply Together						Vol.					
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14	364	.0043	1.6		4.7	3.0
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 08	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ No 2x then rechargedBubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☒ Yes ☐ NoColor of Water: ☐ Clear ☐ Cloudy ☒ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☒ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☒ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 09

SAMPLE NO.: UST645-MW 09

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 02/27/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1430
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	6.67	6.92	6.57	6.56		(STD)
Specific Conductivity	2,273	2,270	2,268	2,269		(m S/cm)
Turbidity (Turb)	0.8	0.3	0.3	0.3		(NTU)
Dissolved Oxygen (DO)	6.58	6.08	5.93	5.93		(mg/l)
Temperature (Temp)	19.53	19.60	19.57	19.57		(°C)
ORP	129.1	175.0	180.6	180.6		

Depth to Bottom	635.52	(In) (Minus)	Depth to Water	189.96	(In)	=	445.56	HT (in)
Depth to Bottom	52.96	(Ft) (Minus)	Depth to Water	15.83	(Ft)	=	37.13	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 6	MEASUREMENTS (IN INCHES)									
r = 3	Multiply Together					Vol.				
d/2 = 3	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	12592	.0043	54.1	162.9	165.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 09	3-40ml	HCL, 4°C
COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ No			
Odor? ☐ Yes ☒ No If yes, describe: _____			
Duplicate in Sample taken? ☐ Yes ☒ No			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW/0

SAMPLE NO.: UST645-MW/0

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/05/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1100
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60 °F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailer

FIELD MEASUREMENTS

	1	2	3	4		
pH	6.25	6.58	6.60	6.61		(STD)
Specific Conductivity	2.576	2.733	2.752	2.770		(m S/cm)
Turbidity (Turb)	16.5	12.2	16.0	18.3		(NTU)
Dissolved Oxygen (DO)	1.09	0.44	0.44	0.51		(mg/l)
Temperature (Temp)	20.42	20.10	20.02	20.11		(°C)
ORP	-32.1	-94.3	-98.5	-101.1		

Depth to Bottom	547.60	(In) (Minus)	Depth to Water	227.28	(In)	=	370.32	HT (in)
Depth to Bottom	49.80	(Ft) (Minus)	Depth to Water	18.94	(Ft)	=	30.86	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together						Vol.			
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	1163	.0043	5.0	15.0	16.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW/0	3-40ml	HCL, 4°C
COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ No			
Odor? ☐ Yes ☐ No If yes, describe: _____			
Duplicate in Sample taken? ☐ Yes ☒ No			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW ||

SAMPLE NO.: UST645-MW||

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 02/27/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1045
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60 °F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	4.22	4.34	4.38	4.36		(STD)
Specific Conductivity	0.492	1.406	1.452	1.463		(m S/cm)
Turbidity (Turb)	3.9	45.0	34.0	35.2		(NTU)
Dissolved Oxygen (DO)	5.67	1.89	1.77	1.54		(mg/l)
Temperature (Temp)	19.35	19.12	19.17	19.24		(°C)
ORP	295.6	104.5	88.9	62.9		

Depth to Bottom	529.20	(In) (Minus)	Depth to Water	272.04	(In)	=	257.16	HT (in)
Depth to Bottom	44.10	(Ft) (Minus)	Depth to Water	22.67	(Ft)	=	21.43	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	807	.0043	3.5	10.4	11.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ NoOrganic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 12

SAMPLE NO.: UST645-MW 12

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 2/27/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1530
(military time)

PHONE: 910-451-2390

WEATHER: ☐ Sunny ☒ Cloudy ☐ Rainy ☐ Snow Temperature: 60 °F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	3.74	3.06	3.03	3.03		(STD)
Specific Conductivity	0.685	0.639	0.642	0.641		(m S/cm)
Turbidity (Turb)	36.2	11.6	6.1	6.0		(NTU)
Dissolved Oxygen (DO)	5.90	5.83	5.94	5.94		(mg/l)
Temperature (Temp)	19.58	19.52	19.45	19.45		(°C)
ORP	476.4	513.2	520.0	520.1		

Depth to Bottom	455.40	(In) (Minus)	Depth to Water	150.60	(In)	=	304.80	HT (in)
Depth to Bottom	37.95	(Ft) (Minus)	Depth to Water	12.55	(Ft)	=	25.4	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 26 MEASUREMENTS (IN INCHES)

r = 13

Multiply Together

Vol.

d/2 = 17

	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	8614	.0043	37.0	111.1	115.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 12	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☐ Yes ☐ NoOrganic Matter in Sample? ☐ Yes ☐ NoColor of Water: ☐ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☐ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☐ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 13

SAMPLE NO.: UST645-MW 13

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 02/27/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1015
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60 °F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	3.17	3.02	2.98	2.95		(STD)
Specific Conductivity	1.306	1.360	1.382	1.392		(m S/cm)
Turbidity (Turb)	104.1	74.3	68.8	117.1		(NTU)
Dissolved Oxygen (DO)	9.71	9.40	9.36	9.29		(mg/l)
Temperature (Temp)	19.88	19.41	19.45	19.44		(°C)
ORP	283.7	428.6	445.2	460.2		

Depth to Bottom	441.24	(In) (Minus)	Depth to Water	287.16	(In)	=	154.08	HT (in)
Depth to Bottom	367.7	(Ft) (Minus)	Depth to Water	23.93	(Ft)	=	12.84	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1

Multiply Together

Vol.

d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	484	.0043	2.1	6.2	6.5
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 13	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ NoOrganic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☐ Clear ☒ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☒ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 14

SAMPLE NO.: UST645-MW/4

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/04/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1245
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 45°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	6.12	6.56	6.61	6.63		(STD)
Specific Conductivity	2.258	1.777	1.732	1.729		(m S/cm)
Turbidity (Turb)	30.3	5.0	7.1	4.5		(NTU)
Dissolved Oxygen (DO)	4.49	0.72	0.79	0.77		(mg/l)
Temperature (Temp)	19.81	20.08	20.31	20.38		(°C)
ORP	-6.6	-97.0	-109.9	-113.7		

Depth to Bottom	388.20	(In) (Minus)	Depth to Water	229.80	(In)	=	158.40	HT (in)
Depth to Bottom	32.35	(Ft) (Minus)	Depth to Water	19.15	(Ft)	=	13.20	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1

Multiply Together

Vol.

d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	497	.0043	2.1	6.4	6.5
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 14	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☒ Yes ☐ No If yes, describe: Pungent, oilyDuplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐

	WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709	
			PROJECT NAME: Bldg 645	
			WELL NO.: UST645-MW 15	
			SAMPLE NO.: UST645-MW 15	
PROJECT LOCATION: Camp Lejeune, NC		LOGGER: Mark Martin/John MacLeod	DATE: 03/04/09 (month/day/year)	
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin/John MacLeod	TIME: 1445 (military time)	
PHONE: 910-451-2390		WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 50°F		
LEL:			Well Locked: ☒ Yes ☐ No	
PID:		Sampling Device: Bailor		

FIELD MEASUREMENTS						
	1	2	3	4		
pH	7.00	7.26	7.29	7.28		(STD)
Specific Conductivity	2.547	2.515	2.096	2.138		(m S/cm)
Turbidity (Turb)	20.1	30.9	22.8	20.7		(NTU)
Dissolved Oxygen (DO)	8.99	9.09	8.76	8.74		(mg/l)
Temperature (Temp)	18.51	19.25	19.19	19.15		(°C)
ORP	76.5	74.3	78.4	79.9		

Depth to Bottom	1026.03	(In) (Minus)	Depth to Water	226.92	(In)	=	799.08	HT (in)
Depth to Bottom	85.50	(Ft) (Minus)	Depth to Water	18.91	(Ft)	=	66.59	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	250.9	.0043	10.8	32.4	33.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 15	3-40ml	HCL, 4°C
COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles is purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ No			
Odor? ☐ Yes ☒ No If yes, describe: _____			
Duplicate in Sample taken? ☐ Yes ☒ No			
PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]			
OTHER: ☐			



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 16

SAMPLE NO.: UST645-MW 16

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/04/09

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1115

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 40°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	6.30	6.93	6.99	7.01		(STD)
Specific Conductivity	2.422	2.448	2.447	2.449		(m S/cm)
Turbidity (Turb)	23.4	3.5	2.5	2.4		(NTU)
Dissolved Oxygen (DO)	0.60	0.64	0.61	0.63		(mg/l)
Temperature (Temp)	19.37	19.27	19.20	19.00		(°C)
ORP	51.0	-79.2	-89.2	-90.7		

Depth to Bottom	974.28	(In) (Minus)	Depth to Water	236.76	(In)	=	737.52	HT (in)
Depth to Bottom	81.19	(Ft) (Minus)	Depth to Water	19.73	(Ft)	=	61.46	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	2316	.0043	10.0	29.9	30.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 16	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ NoOrganic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 17

SAMPLE NO.: UST645-MW 17

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/02/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1315
(military time)

PHONE: 910-451-2390

WEATHER: ☐ Sunny ☒ Cloudy ☐ Rainy ☐ Snow Temperature: 45°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	6.06	7.11	7.12	7.13		(STD)
Specific Conductivity	1.821	1.673	1.788	1.811		(m S/cm)
Turbidity (Turb)	24.2	0.9	0.7	0.7		(NTU)
Dissolved Oxygen (DO)	6.05	6.06	6.08	6.11		(mg/l)
Temperature (Temp)	16.73	15.92	16.07	16.10		(°C)
ORP	41.7	62.0	61.4	62.4		

Depth to Bottom	952.32	(In) (Minus)	Depth to Water	227.04	(In) =	725.28	HT (in)
Depth to Bottom	79.36	(Ft) (Minus)	Depth to Water	18.92	(Ft) =	60.44	HT (ft)
Product in Well? ☐ Yes ☒ No							
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft) =		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)											
r = 1 Multiply Together						Vol.					
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14	2277	.0043	9.8		29.4	30.0
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 17	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☒ No Organic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe:Duplicate in Sample taken? ☒ Yes ☐ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 18

SAMPLE NO.: UST645-MW 18

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 02/27/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1445
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60 °F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	12.32	12.32	12.15	11.92		(STD)
Specific Conductivity	6.913	7.005	5.801	4.230		(m S/cm)
Turbidity (Turb)	0.2	0.8	0.3	6.7		(NTU)
Dissolved Oxygen (DO)	6.98	6.76	5.67	3.49		(mg/l)
Temperature (Temp)	19.47	19.34	19.15	19.04		(°C)
ORP	-135.1	-119.6	-128.7	-130.3		

Depth to Bottom	926.28	(In) (Minus)	Depth to Water	244.44	(In)	=	681.84	HT (in)
Depth to Bottom	77.19	(Ft) (Minus)	Depth to Water	20.37	(Ft)	=	56.82	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1

Multiply Together

Vol.

d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	2141	.0043	9.2	27.6	28.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 18	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ NoOrganic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW19

SAMPLE NO.: UST645-MW19

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/04/09

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1030

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 35°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	3.30	3.19	3.16	3.16		(STD)
Specific Conductivity	1.059	1.098	1.118	1.120		(m S/cm)
Turbidity (Turb)	29.1	24.0	11.3	7.7		(NTU)
Dissolved Oxygen (DO)	1.83	1.63	1.82	1.78		(mg/l)
Temperature (Temp)	18.68	18.78	18.65	18.92		(°C)
ORP	440.6	471.6	470.2	467.0		

Depth to Bottom	415.80	(In) (Minus)	Depth to Water	237.60	(In)	=	178.20	HT (in)
Depth to Bottom	34.65	(Ft) (Minus)	Depth to Water	19.30	(Ft)	=	15.35	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	578	.0043	2.5	7.5	8.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW19	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☒ Yes ☐ No Red GrowthColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other If not clear, did water change to clear prior to sampling? ☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe:Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW20

SAMPLE NO.: UST645-MW20

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/04/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 0945
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 35°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	6.71	6.74	6.74	6.74		(STD)
Specific Conductivity	2.063	2.124	2.111	2.109		(m S/cm)
Turbidity (Turb)	33.8	22.3	11.4	12.8		(NTU)
Dissolved Oxygen (DO)	0.98	0.47	0.66	0.58		(mg/l)
Temperature (Temp)	18.70	18.96	19.09	19.09		(°C)
ORP	-78.3	-88.5	-85.5	-86.7		

Depth to Bottom	592.80	(In) (Minus)	Depth to Water	232.32	(In)	=	360.48	HT (in)
Depth to Bottom	49.40	(Ft) (Minus)	Depth to Water	19.36	(Ft)	=	30.04	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1

Multiply Together

Vol.

d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	1132	.0043	4.9	14.6	15.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW20	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ NoOrganic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☒ Yes ☐ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐

	WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709
			PROJECT NAME: Bldg 645
			WELL NO.: UST645-MW2\
			SAMPLE NO.: UST645-MW2\
PROJECT LOCATION: Camp Lejeune, NC		LOGGER: Mark Martin/John MacLeod	DATE: 03/04/09 (month/day/year)
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin/John MacLeod	TIME: 1615 (military time)
PHONE: 910-451-2390		WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 50°F	
LEL:			Well Locked: ☒ Yes ☐ No
PID:		Sampling Device: Bailor	

FIELD MEASUREMENTS						
	1	2	3	4		
pH	7.22	7.22	7.22	7.08		(STD)
Specific Conductivity	0.149	0.150	0.149	0.159		(m S/cm)
Turbidity (Turb)	1.1	9.3	7.4	5.8		(NTU)
Dissolved Oxygen (DO)	7.04	6.44	8.02	8.55		(mg/l)
Temperature (Temp)	16.86	16.90	17.00	17.14		(°C)
ORP	103.1	95.1	94.2	98.8		

Depth to Bottom	964.44	(In) (Minus)	Depth to Water	175.20	(In)	=	789.24	HT (in)
Depth to Bottom	80.37	(Ft) (Minus)	Depth to Water	14.60	(Ft)	=	65.77	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)										
r = 1 Multiply Together Vol.										
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	2478	.0043	10.7	32.0	33.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 2\	3-40ml	HCL, 4°C
COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles is purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ No			
Odor? ☐ Yes ☒ No If yes, describe: _____			
Duplicate in Sample taken? ☐ Yes ☒ No			
PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]			
OTHER: ☐			



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 22

SAMPLE NO.: UST645-MW 22

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/02/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 0900
(military time)

PHONE: 910-451-2390

WEATHER: ☐ Sunny ☐ Cloudy ☐ Rainy ☒ Snow Temperature: 30 °F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailer

FIELD MEASUREMENTS

	1	2	3	4		
pH	6.89	6.96	6.90	6.90		(STD)
Specific Conductivity	3.000	3.017	3.012	3.015		(m S/cm)
Turbidity (Turb)	88.7	18.1	16.9	12.9		(NTU)
Dissolved Oxygen (DO)	8.61	8.67	8.72	8.70		(mg/l)
Temperature (Temp)	17.23	16.78	16.67	16.76		(°C)
ORP	70.0	70.6	72.0	72.5		

Depth to Bottom	960.00	(In) (Minus)	Depth to Water	237.24	(In) =	722.76	HT (in)
Depth to Bottom	80.00	(Ft) (Minus)	Depth to Water	19.77	(Ft) =	60.23	HT (ft)
Product in Well? ☐ Yes ☒ No							
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft) =		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)										
r = 1	Multiply Together					Vol.					
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14	2269	.0043	9.8		29.3	30.0
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 22	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ NoOrganic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW23

SAMPLE NO.: UST645-MW23

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/02/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 0945
(military time)

PHONE: 910-451-2390

WEATHER: ☐ Sunny ☐ Cloudy ☐ Rainy ☒ Snow Temperature: 30°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailer

FIELD MEASUREMENTS

	1	2	3	4		
pH	7.20	6.03	5.53			(STD)
Specific Conductivity	0.106	0.101	0.102			(m S/cm)
Turbidity (Turb)	47.8	709.3	1339.9			(NTU)
Dissolved Oxygen (DO)	7.19	6.01	5.31			(mg/l)
Temperature (Temp)	15.66	16.39	16.38			(°C)
ORP	56.5	136.6	206.1			

Depth to Bottom	352.20	(In) (Minus)	Depth to Water	205.44	(In) =	146.76	HT (in)
Depth to Bottom	29.35	(Ft) (Minus)	Depth to Water	17.12	(Ft) =	12.23	HT (ft)
Product in Well? ☐ Yes ☒ No							
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft) =		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	461	.0043	2.0	5.9	4.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW23	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ~~Yes~~ ☒ No 2x then rechargedBubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☐ Clear ☒ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☒ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 24

SAMPLE NO.: UST645-MW 24

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/02/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1245
(military time)

PHONE: 910-451-2390

WEATHER: ☐ Sunny ☒ Cloudy ☐ Rainy ☐ Snow Temperature: 40°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	4.98	4.64	4.60	4.59		(STD)
Specific Conductivity	0.104	0.103	0.103	0.103		(m S/cm)
Turbidity (Turb)	5.5	134.3	166.1	179.6		(NTU)
Dissolved Oxygen (DO)	5.42	5.18	5.97	6.30		(mg/l)
Temperature (Temp)	16.06	16.58	15.53	16.12		(°C)
ORP	62.1	89.5	111.3	117.7		

Depth to Bottom	225.00	(In) (Minus)	Depth to Water	151.08	(In)	=	73.92	HT (in)
Depth to Bottom	18.75	(Ft) (Minus)	Depth to Water	12.59	(Ft)	=	6.46	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	232	.0043	1.0	3.0	3.5
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 24	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ NoOrganic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☒ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☒ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 25

SAMPLE NO.: UST645-MW 25

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/05/09

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1030

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	5.55	3.87	3.75	3.74		(STD)
Specific Conductivity	0.111	0.140	0.160	0.162		(m S/cm)
Turbidity (Turb)	16.0	15.9	14.4	17.2		(NTU)
Dissolved Oxygen (DO)	6.43	4.91	4.73	4.73		(mg/l)
Temperature (Temp)	18.65	19.38	19.50	19.44		(°C)
ORP	285.6	402.5	421.6	429.6		

Depth to Bottom	280.56	(In) (Minus)	Depth to Water	202.56	(In)	=	78.00	HT (in)
Depth to Bottom	23.38	(Ft) (Minus)	Depth to Water	16.88	(Ft)	=	6.50	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	245	.0043	1.1	3.2	4.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 25	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ NoOrganic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 26

SAMPLE NO.: UST645-MW26

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/02/09

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1530

PHONE: 910-451-2390

WEATHER: ☐ Sunny ☒ Cloudy ☐ Rainy ☐ Snow Temperature: 40 °F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailer

FIELD MEASUREMENTS

	1	2	3	4		
pH	7.11	6.88	6.84	6.81		(STD)
Specific Conductivity	0.890	0.900	0.900	0.899		(m S/cm)
Turbidity (Turb)	7.6	18.0	12.7	22.3		(NTU)
Dissolved Oxygen (DO)	5.41	5.14	5.18	5.22		(mg/l)
Temperature (Temp)	16.08	17.26	17.34	17.13		(°C)
ORP	32.2	45.7	50.9	54.4		

Depth to Bottom	964.44	(In) (Minus)	Depth to Water	222.96	(In) =	741.48	HT (in)
Depth to Bottom	80.37	(Ft) (Minus)	Depth to Water	18.58	(Ft) =	61.79	HT (ft)
Product in Well? ☐ Yes ☒ No							
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft) =		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	2328	.0043	10.0	30.0	30.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW26	3-40ml	HCL, 4°C
COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ No			
Odor? ☐ Yes ☒ No If yes, describe: _____			
Duplicate in Sample taken? ☐ Yes ☒ No			
PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]			
OTHER: ☐			

	WELL OR GROUND WATER DATA SHEET		PROJECT NUMBER: 125709
			PROJECT NAME: Bldg 645
			WELL NO.: UST645-MW 27
			SAMPLE NO.: UST645-MW
PROJECT LOCATION: Camp Lejeune, NC		LOGGER: Mark Martin/John MacLeod	DATE: 03/02/09 (month/day/year)
PROJECT CONTACT: Mark Martin		SAMPLER: Mark Martin/John MacLeod	TIME: 1445 (military time)
PHONE: 910-451-2390		WEATHER: ☐ Sunny ☒ Cloudy ☐ Rainy ☐ Snow Temperature: 40°F	
LEL:			Well Locked: ☒ Yes ☐ No
PID:		Sampling Device: Bailor	

FIELD MEASUREMENTS						
	1	2	3	4		
pH	7.45	7.14	7.14	7.16		(STD)
Specific Conductivity	0.292	0.284	0.319	0.349		(m S/cm)
Turbidity (Turb)	2.6	-1.1	-1.2	-0.9		(NTU)
Dissolved Oxygen (DO)	4.56	4.72	3.10	1.82		(mg/l)
Temperature (Temp)	16.43	16.84	16.49	16.35		(°C)
ORP	61.1	65.2	9.6	-38.7		

Depth to Bottom	473.68	(In) (Minus)	Depth to Water	256.68	(In)	=	717.00	HT (in)
Depth to Bottom	81.14	(Ft) (Minus)	Depth to Water	21.39	(Ft)	=	59.75	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)										
r = 1 Multiply Together Vol.										
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	2251	.0043	9.7	29.0	30.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 27	3-40ml	HCL, 4°C

COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ No			
Odor? ☒ Yes ☒ No If yes, describe: <u>Strong, Pungent, Oily</u>			
Duplicate in Sample taken? ☒ Yes ☐ No			
PURGE DISCHARGED:	DRUM: ☐	DRUM#	SITE TREATMENT: [X]
OTHER: ☐			



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 28

SAMPLE NO.: UST645-MW28

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 02/27/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 0915
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	9.05	9.61	9.72	9.77		(STD)
Specific Conductivity	0.118	0.120	0.120	0.121		(m S/cm)
Turbidity (Turb)	2.4	1.8	1.5	1.3		(NTU)
Dissolved Oxygen (DO)	5.75	5.91	6.01	5.95		(mg/l)
Temperature (Temp)	18.45	18.77	18.94	18.99		(°C)
ORP	-16.3	-44.8	-54.3	-55.8		

Depth to Bottom	440.44	(In) (Minus)	Depth to Water	222.60	(In)	=	717.84	HT (in)
Depth to Bottom	78.37	(Ft) (Minus)	Depth to Water	18.55	(Ft)	=	59.82	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	2254	.0043	9.7	29.1	30.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 28	3-40ml	HCL, 4°C
COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ No			
Odor? ☐ Yes ☒ No If yes, describe: _____			
Duplicate in Sample taken? ☒ Yes ☒ No			
PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]			
OTHER: ☐			



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW29

SAMPLE NO.: UST645-MW 29

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 02/27/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1300
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailer

FIELD MEASUREMENTS

	1	2	3	4		
pH	6.58	7.08	7.11	7.13		(STD)
Specific Conductivity	0.496	0.503	0.503	0.503		(m S/cm)
Turbidity (Turb)	32.9	6.1	6.0	4.9		(NTU)
Dissolved Oxygen (DO)	0.59	0.29	0.28	0.23		(mg/l)
Temperature (Temp)	19.42	18.64	18.60	18.56		(°C)
ORP	-73.9	-113.4	-114.5	-115.7		

Depth to Bottom	942.60	(In) (Minus)	Depth to Water	217.32	(In)	=	725.28	HT (in)
Depth to Bottom	78.55	(Ft) (Minus)	Depth to Water	18.11	(Ft)	=	60.44	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)

r = 1

Multiply Together

Vol.

d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	2277	.0043	9.8	29.4	30.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW29	3-40ml	HCL, 4°C
COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles is purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ No			
Odor? ☐ Yes ☒ No If yes, describe: _____			
Duplicate in Sample taken? ☐ Yes ☒ No			
PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]			
OTHER: ☐			



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 30

SAMPLE NO.: UST645-MW30

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 02/27/09

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1530

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	9.71	8.90	8.81	8.68		(STD)
Specific Conductivity	0.297	0.243	0.240	0.243		(m S/cm)
Turbidity (Turb)	2.0	1.3	1.3	1.3		(NTU)
Dissolved Oxygen (DO)	5.88	5.26	5.17	4.96		(mg/l)
Temperature (Temp)	18.51	18.57	18.59	18.59		(°C)
ORP	-24.7	11.7	16.6	18.9		

Depth to Bottom	939.36	(In) (Minus)	Depth to Water	249.36	(In) =	690.00	HT (in)
Depth to Bottom	78.28	(Ft) (Minus)	Depth to Water	20.78	(Ft) =	57.50	HT (ft)
Product in Well? ☐ Yes ☒ No							
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft) =		Product Thickness HT (ft)

d = 2 MEASUREMENTS (IN INCHES)											
r = 1 Multiply Together						Vol.					
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged	
TOP				1	3.14	2167	.0043	9.3	27.9	28.0	
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW 30	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles is purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling? ☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

PURGE DISCHARGED:

DRUM: ☐

DRUM#

SITE TREATMENT: [X]

OTHER: ☐



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 31

SAMPLE NO.: UST645-MW 31

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 02/27/09

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1335

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 60°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailor

FIELD MEASUREMENTS

	1	2	3	4		
pH	7.78	7.27	7.19	7.03		(STD)
Specific Conductivity	0.080	0.072	0.072	0.084		(m S/cm)
Turbidity (Turb)	0.7	1.1	1.2	1.1		(NTU)
Dissolved Oxygen (DO)	4.32	1.26	0.83	0.46		(mg/l)
Temperature (Temp)	19.28	18.89	18.85	18.83		(°C)
ORP	-19.4	0.3	1.4	1.2		

Depth to Bottom	200.00	(In) (Minus)	Depth to Water	243.36	(In)	=	956.64	HT (in)
Depth to Bottom	100.00	(Ft) (Minus)	Depth to Water	20.28	(Ft)	=	79.72	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = 2	MEASUREMENTS (IN INCHES)									
r = 1	Multiply Together					Vol.				
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS	Purge Vol.	Vol. Purged
TOP				1	3.14	3004	.0043	12.9	38.7	40.0
Middle					3.14		.0043			
Bottom					3.14		.0043			
Total					3.14		.0043			

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW31	3-40ml	HCL, 4°C
COMMENTS:			
Well went dry during purging, and did not recharge? ☐ Yes ☒ No			
Bubbles is purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ No			
Color of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other If not clear, did water change to clear prior to sampling? ☐ Yes ☐ No			
Odor? ☐ Yes ☒ No If yes, describe: _____			
Duplicate in Sample taken? ☐ Yes ☒ No			
PURGE DISCHARGED: DRUM: ☐ DRUM# SITE TREATMENT: [X]			
OTHER: ☐			



WELL OR GROUND WATER DATA SHEET

PROJECT NUMBER: 125709

PROJECT NAME: Bldg 645

WELL NO.: UST645-MW 32

SAMPLE NO.: UST645-MW 32

PROJECT LOCATION: Camp Lejeune, NC

LOGGER: Mark Martin/John MacLeod

DATE: 03/04/09
(month/day/year)

PROJECT CONTACT: Mark Martin

SAMPLER: Mark Martin/John MacLeod

TIME: 1345
(military time)

PHONE: 910-451-2390

WEATHER: ☒ Sunny ☐ Cloudy ☐ Rainy ☐ Snow Temperature: 45°F

LEL:

Well Locked: ☒ Yes ☐ No

PID:

Sampling Device: Bailer

FIELD MEASUREMENTS

	1	2	3	4		
pH	6.99	6.94	6.93	6.91		(STD)
Specific Conductivity	0.214	0.151	0.148	0.147		(m S/cm)
Turbidity (Turb)	-0.1	-0.8	-0.9	-0.9		(NTU)
Dissolved Oxygen (DO)	4.30	3.35	3.32	3.18		(mg/l)
Temperature (Temp)	16.45	16.67	16.13	15.79		(°C)
ORP	14.2	41.8	50.8	56.6		

Depth to Bottom	939.12	(In) (Minus)	Depth to Water	250.80	(In)	=	688.32	HT (in)
Depth to Bottom	78.26	(Ft) (Minus)	Depth to Water	20.90	(Ft)	=	57.36	HT (ft)
Product in Well? ☐ Yes ☒ No								
Depth to Water		(Ft) (Minus)	Depth to Product		(Ft)	=		Product Thickness HT (ft)

d = <u>2</u> MEASUREMENTS (IN INCHES)											
r = 1 Multiply Together					Vol.						
d/2 = 1	BOTTOM	TOP	Layer Thickness	r ²	Π	Cubic in.	Conversion Factor	EST. GALLONS		Purge Vol.	Vol. Purged
TOP				1	3.14	2161	.0043	9.3		27.9	30.0
Middle					3.14		.0043				
Bottom					3.14		.0043				
Total					3.14		.0043				

ANALYTE	CONTAINER NUMBER	SIZE	PRESERVATIVE
601/602	UST645-MW	3-40ml	HCL, 4°C

COMMENTS:

Well went dry during purging, and did not recharge? ☐ Yes ☒ NoBubbles in purge water? ☒ Yes ☐ No Organic Matter in Sample? ☐ Yes ☒ NoColor of Water: ☒ Clear ☐ Cloudy ☐ Rusty ☐ Black ☐ Other _____ If not clear, did water change to clear prior to sampling?
☐ Yes ☐ NoOdor? ☐ Yes ☒ No If yes, describe: _____Duplicate in Sample taken? ☐ Yes ☒ No

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