FORMER TARAWA TERRACE SCHOOL
BUILDING TT-48 UST #1 CLOSURE REPORT

MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

Prepared for:

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

NAVFAC
Naval Facilities Engineering Command

Naval Facilities Engineering Command, Atlantic
6506 Hampton Boulevard
Norfolk, Virginia 23508-1273

Prepared by:

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Task Order 0033/Shaw Project No. 109972
November 2006

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November 27, 2006

DEPARTMENT OF THE NAVY

Mr. Andrew Smith
Environmental Management Division
MCB Building 12, McHugh Boulevard
Camp Lejeune, NC 28542

Re: Contract N62470-02-D-3260; Task Order 033
TT-48 Tank #1 UST Closure Report
Marine Corps Base, Camp Lejeune, N.C.

Dear Mr. Smith:

Attached please find 2 copies of the UST Closure Report for the TT-48 Tank #1 site. Also included is one CD with an electronic file of this report.

Should you have any additional comments or questions, please do not hesitate to contact myself or Joe Colella at your earliest convenience.

Sincerely,

Shaw Environmental, Inc.

James R. Wilson, L.G.
Project Geologist

Attachments

cc: File

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Program Manager

Task Order 0033
Shaw Project No. 109972

November 2006

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EXECUTIVE SUMMARY

The former Tarawa Terrace School Building TT-48 is located in the Tarawa Terrace residential area of MCB, Camp Lejeune, North Carolina. The scope-of-work completed at the site involved removal of a 500 gallon steel heating oil tank labeled tank #1. There were no piping or dispenser connected to the tank. The tank was removed on October 3, 2006.

The removal activity revealed minor soil staining and a slight petroleum hydrocarbon odor when the UST was removed. The soil removed from the excavation was screened of with an Organic Vapor Analyzer equipped with a Flame Ionization Detector (OVA-FID). The OVA-FID detected organic vapors in excess of 1 ppm ranging from 11 ppm to 150 ppm.

Analytical results indicated that TPH-DRO and TPH-GRO were detected at concentrations greater than 10 mg/kg, the NCDENR action level, in all of the soil samples collected from beneath the UST and the four sidewalls (TT-001 through TT-005).

On October 13, 2006, Shaw removed an additional three feet of soil on the north and west walls, four feet of soil on the east wall, and six feet of soil on the south wall. The excavation was conducted down to 6.0 ft-bls because no additional soil could be removed from the base due to groundwater at 6.5 ft-bgs. Therefore no sample from the base of the excavation was obtained. A second set of soil samples were collected at the new limits of the excavation for MADEP analysis. The analytical results were below North Carolina's Residential and Soil-to-Groundwater MSCCs.

For disposal purposes, soil from the UST excavation was staged on site until transportation and disposal was arranged. One composite soil sample from the excavated backfill material was collected for disposal characterization analysis. The sample was analyzed for TPH-GRO, TPH-DRO, and TCLP metals. Results from the analyses met the allowable NCDENR regulatory levels for non-hazardous landfill disposal. The soil was disposed at the MCB landfill. Restoration of the site was conducted by backfilling and compacting with local borrow soil.

On November 2, 2006, a temporary monitoring well was installed at the south (downgradient) end of the backfilled excavation and groundwater sample TT-TW-001 was collected for analysis. Analytical results indicated that Benzene, Ethylbenzene, Bis(2-ethylhexyl)phthalate, and MADEP-VPH (C-9-C-22 Aromatics) were detected at concentrations above North Carolina's Groundwater Quality Standards.

Based on the results of the soil confirmation samples collected from the former UST excavation Shaw recommends that no further action with respect to the UST soils be required. Based on the results of the groundwater sample collected from the former UST excavation Shaw recommends that a Limited Site Assessment Report with respect to the groundwater be required.

1.0 GENERAL INFORMATION

1.1 Site Location and Description

The former Tarawa Terrace School Building TT-48 is located in the Tarawa Terrace residential area of Camp Lejeune. The site is located on the west side of Tarawa Terrace approximately 500 feet east from the intersection of Tarawa Terrace Boulevard and Saipan Drive. *Figure 1.1* presents a Camp Lejeune Vicinity Map of the site. The area surrounding the UST is being redeveloped for residential use. A site map showing the UST location and other pertinent site features is presented in *Figure 1.2*. There was no fuel line or dispenser associated with the UST. The previous content of the UST was heating oil.

The removal activity revealed minor soil staining and a slight petroleum hydrocarbon odor when the UST was removed. Screening of the excavated soil with an Organic Vapor Analyzer equipped with a Flame Ionization Detector (OVA-FID) detected organic vapors in excess of 1 ppm, ranging from 11 ppm to 150 ppm. A site map showing the Tank #1 UST excavation limits, FID readings, and DRO/GRO results is presented in *Figure 1.3*.

1.2 NCDENR Notification Forms and UST Removal Permits

Since the heating oil tank was not regulated, a Notification of Intent form (UST-3) to remove the UST was not submitted to the NCDENR, Wilmington Regional Office by the Marine Corp Base (MCB) prior to UST removal activities. No local UST removal permits were required. The MCB Fire Division was notified of the closure activities.

1.3 UST System

The Tank #1 UST located at Tarawa Terrace Building TT-48 consisted of one 500 gallon steel tank. It is unknown when the UST was installed. On October 3, 2006 the UST removal activities were completed. There was no fuel line or dispenser associated with the UST.

1.4 Facility Information

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

Name:	Former Tarawa Terrace School Building TT-48
UST Location	Tarawa Terrace Residential Area Onslow County Camp Lejeune, N.C. 28542-0004

UST Owner:	Commanding General, MCB I & E/EMD, MCB Building 1 Holcomb Boulevard Onslow County Camp Lejeune, NC 28542-0001
UST Information:	Building TT-48 Tank Number – 1 Facility ID # Not Regulated Tank Capacity – 500 gallons Tank Dimensions –4 feet diameter by 5.5 feet long Last Contents –Heating Oil Previous Contents –Heating Oil

1.5 Facility Contacts

Information regarding the responsible party, as well as the names, addresses, and phone numbers of the primary contacts, the UST excavation subcontractor, the primary consultant, and the analytical laboratory are as follows:

Primary Responsible Party Contact:
Mr. Andrew Smith
Mr. Bruce Markwick
I & E/EMD, MCB
PSC Box 20004
Camp Lejeune, NC 28542
(910) 451-5068

Closure Contractor & Primary Consultant
Mr. James R. Wilson
Shaw Environmental, Inc
11560 Great Oaks Way
Suite 500
Alpharetta, Georgia 30022
(770) 475-8994

UST Excavation Contractor:
Shaw Environmental, Inc.
11560 Great Oaks Way, Suite 500
Alpharetta, Georgia 30022
(770) 475-8994

Laboratory:
Accutest Laboratories SE, Inc.
4405 Vineland Road, Suite C15
Orlando, Fl 32811-7363
(407)425-6700
Heather Wandrey, Project Manager
N.C. Certification No. 573

1.6 Site Characteristics

The former Tarawa Terrace School Building TT-48 is located in the Tarawa Terrace residential area off State Route 24. The site has been cleared and is presently under construction for a new housing development.

1.6.1 Camp Lejeune Marine Base Location and Description

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

1.6.2 Topographic and Hydrogeologic Setting

The following sections briefly discuss the site topography and hydrogeologic setting.

Topography

The project area is dominated by relatively flat topography gently sloping to the south and southwest toward a tributary of Northeast Creek. Much of the area immediately surrounding the former Tarawa Terrace School Building TT-48 consists of exposed soil since the area as part of a new housing construction area. The nearest mapped body of surface water is a tributary of Northeast Creek, located approximately 2,500 feet to the southwest. Surface water runoff from the site would be to the southwest and then diverted into a network of storm drains located on Tarawa Boulevard. Storm water collected by this system of drains ultimately discharges to the New River.

Regional Geology and Hydrogeology

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

The groundwater aquifer is classified as GA groundwaters according to the North Carolina Administrative Code (NCAC) Title 2L Subchapter 15A, Section .0201 Groundwater Classifications. There are no water supply wells in the vicinity of the site (all water supply wells in the vicinity of the site were abandoned in the 1980's). The nearest water supply well (#704) is located approximately 7,000 feet east-southeast from the site. The nearest downgradient body of surface water is a tributary of Northeast Creek, located approximately 2,500 feet to the southwest. Northeast Creek is also located approximately 2,500 feet to the south and a marsh area associated with Northeast Creek is located approximately 2,000 feet south of the site. Depth to groundwater typically ranges from 6 to 10 feet bls. In general, the direction of groundwater flow at the site is to the southwest.

2.0 UST CLOSURE PROCEDURES

Shaw Environmental, Inc. (Shaw) was contracted to provide closure services for UST removal activities at the former Tarawa Terrace School Building TT-48. The Tank #1 UST was located on the south side of one of the former school buildings and on the western side of the main school building at Tarawa Terrace. The MCB Fire Division was contacted prior to removal operations. Photographs of UST removal activities are provided in *Appendix E.*

Equipment and personnel currently working at Camp Lejeune performed the UST removal activities. The initial site preparation activities included:

- Acquiring dig permits and proper safety forms.
- Examining the site to determine access to the proposed excavation area.
- Delineation of the job site perimeter and work zones.
- Location of all utilities within the project area.
- Placement of an excavator into the excavation area.
- Construction of a soil staging area and decontamination pad.
- Placement of temporary fence/barricades surrounding the work area.
- Procurement of required equipment and materials.

A local utility locator was contracted by Shaw to identify any utilities within the work zone. None were found/identified.

Shaw removed the 500 gallon steel UST using a track mounted excavator on October 3, 2006. Groundwater was not observed in the excavation at a depth of 6 feet bls. The depth from the land surface to the top of the tank was 0.5 feet. The tank was installed in a light brown sandy clay native material down to depth of 4.5 feet. A grey silty clay was present directly below the UST from 4.5 to 5.5 feet. A brown silty sand was present from 5.5 to 6.0 feet at the bottom of the excavation where the soil samples were collected.

Following removal of the UST from the excavation, an inspection of the UST did not identify any holes in the steel tank or any evidence of a petroleum leak. The photographs of the UST shows holes that were caused by the excavator removing the UST. However, the UST removal activity did reveal corrosion pitting on the outside of the tank. In addition, soil staining and petroleum hydrocarbon odors were present in the soil beneath the tank. OVA-FID readings of the soil removed from the excavation detected organic vapors in excess of 1 ppm ranging from 11 ppm to 150 ppm. All of the soil removed during the UST removal activities was staged on site for disposal.

Before removal, approximately 50 gallons of heating oil sludge was removed by a vacuum truck and disposed of at EMD Camp Lejeune. Following removal, the outside of the UST was cleaned of excess soil and inspected for damage. The inside atmosphere of the UST was tested with an O_2/LEL meter and OVA-FID to ensure that no explosive vapors were present and that it was safe to cut the tank. The ends of the tank were then cut off, the inside was cleaned and the tank was then crushed.

The steel UST was disposed at J&E Salvage, a steel recycler located in Jacksonville, North Carolina. A copy of the UST disposal manifest is provided in *Appendix B.* A completed Site Investigation Report for Permanent Closure or Change in Service of UST (UST-2 Form) is provided in *Appendix A.* The excavated area was back-filled with clean borrow soil purchased from Morton Trucking.

During the UST excavation and removal activities, routine air monitoring in the breathing zone was performed using an OVA-FID to monitor for the presence of volatile hydrocarbons. No readings were detected above the ambient level of 0.0 parts per million (ppm) at the UST location; therefore no upgrade in personnel protective equipment was required.

2.1 Former Tarawa Terrace School Building TT-48 Tank #1 UST Removal

During excavation activities the sidewall of the excavation was screened with a Flame Ionization Detector (OVA-FID). Field measurements ranged from 11 ppm to 150 ppm. Excavated soil was staged on a plastic lined area and stockpiled onsite. Soils were disposed of at a permitted, in-State Non-Hazardous RCRA Subtitle D disposal facility. The initial excavation area was approximately 12 ft x 15 ft to a depth of 6 feet bls. Approximately 60 cy of soil was removed from the excavation. *Figure 1.3* presents a site map for the UST removal activities at Building TT-48.

The UST was a 500 gallon capacity, 5.5-feet long by 4.0 feet diameter, single walled steel tank. Following removal of the UST, a soil sample was collected from each sidewall (approximately 5-feet bls) and the bottom of the excavation (approximately 6-feet bls). The samples were analyzed for TPH-DRO and TPH-GRO. Analytical results indicated that TPH-DRO and TPH-GRO were detected at concentrations greater than 10 mg/kg in all of the soil samples collected from beneath the UST and the four sidewalls (TT-001 through TT-005). All of these concentrations were above North Carolina's action level of 10 mg/kg.

Because analytical results exceeded 10 mg/kg, over excavation of the UST pit was conducted on October 13, 2006 until the OVA-FID readings indicated 0.0 ppm. An additional 3 to 6 feet of soil (approximately 43 cy) was then removed from the four sides of the excavation. However, only 0.5 foot was removed from the bottom of the excavation (6.5 ft-bls total depth) before groundwater was encountered. Confirmation soil samples (TT-012 through TT-015) were then collected from each sidewall (approximately 6.0 ft-bls). The samples were analyzed for VOCs (Method 8260), SVOCs (Method 8270), and MADEP EPH/VPH. However, a soil sample was not obtained from the bottom of the excavation since groundwater was present at the bottom of the excavation (6.5-feet bls). A temporary monitoring well was required to obtain a representative groundwater sample from the bottom of the excavation for further evaluation.

2.2 Non-hazardous Soil Disposal Sampling and Analysis

One composite soil sample from the stockpiled material was collected October 5, 2006 for disposal characterization analysis. The sample was analyzed for TPH-GRO, TPH-DRO, and TCLP Metals in accordance with requirements of the disposal facility.

2.3 Groundwater Sampling and Analysis

On November 2, 2006, a groundwater sample from a temporary monitoring well was obtained from the groundwater at the southern (downgradient) end of the excavation. The sample was analyzed for VOCs (Method 601/602), SVOCs (Method 625), and MADEP EPH/VPH. The analytical results are presented in Tables 3.4 and 3.5 and analytical reports are provided in Appendix D.

3.0 POST EXCAVATION SOIL and GROUNDWATER SAMPLE ANALYTICAL RESULTS

The following sections discuss analytical results of the post excavation soil and groundwater samples collected following the UST removal activities.

3.1 North Carolina Regulatory Standards

The UST removal action cleanup criteria for the Tarawa Terrace School Building TT-48 was based on the NCDENR soil action level for TPH-DRO and TPH-GRO of 10 mg/kg and the North Carolina Residential and Soil-to-Groundwater MSCCs.

3.2 UST Confirmation Soil and Groundwater Sampling Analytical Results

Following excavation activities, one soil sample was collected from beneath the UST and one soil sample was collected from each of the four sidewalls. A photocopy of the chain-of-custody for these samples is provided in *Appendix C*.

Analytical results indicated that TPH-DRO was detected at a concentrations ranging from 692 mg/kg in soil sample TT-002 to 2,220 mg/kg in soil sample TT-003. TPH-GRO was detected at a concentrations ranging from 17.2 mg/kg in soil sample TT-004 to 182 mg/kg in soil sample TT-003. The concentrations of all of the constituents were above the NCDENR soil action level of 10 mg/kg. The MCB EMD then requested Shaw to over-excavate the area to remove contaminated soil to below the action level. After the excavation was completed on all sidewalls and the bottom of the excavation, a second set of soil samples were collected. The soil samples were analyzed for VOCs by EPA Method 8260B, SVOCs by EPA Method 8270, and MADEP VPH/EPH. A sample from the bottom of the excavation was not collected due to the closeness of the water table. Analytical results did not detect VOCs, SVOCs, or MADEP-VPH/EPH in excess of North Carolina's Residential or Soil-to-Groundwater MSCCs. *Table 3.1* presents the initial TPH-GRO/DRO analytical results. *Table 3.2* presents VOC and SVOC analytical results. *Table 3.3* presents MADEP-VPH/EPH analytical results of the soil samples taken after the overexcavation. Photocopies of the soil sample laboratory analytical reports are provided in *Appendix D*. The soil analytical results are presented on *Figure 1.3*. Because TPH-DRO was detected in all initial soil samples for TT-001 through TT-005, the Navy submitted an UST Form 61 to the NCDENR on October 13, 2006. A copy of the UST Form 61 is provided in *Appendix A*.

3.3 Groundwater Sample Analytical Results

Following backfilling activities, a temporary monitoring well was installed and a groundwater sample was collected and sent to an off-site laboratory for VOCs, SVOCs, and MADEP-VPH/EPH analysis. Photocopies of the chain-of-custody for these samples are provided in *Appendix C.*

Analytical results of the groundwater sample TT-TW-001 detected benzene (1.9 µg/l), ethylbenzene (50.2 µg/l), Bis(2-ethylhexyl)phthalate (11.4 µg/l), and the C_9-C_{22} hydrocarbon range aromatics (463 µg/l) at a concentration in excess of the North Carolina Groundwater Quality Standard (GWQS). *Tables 3.4 and 3.5* presents the VOCs, SVOCs, and MADEP-VPH/EPH groundwater analytical results. The groundwater sample laboratory analytical reports are provided in *Appendix D.*

3.4 Disposal Sampling Analytical Results

The contaminant concentrations for the composite disposal soil sample from the soil generated from the UST removal activities met the allowable NCDENR regulatory levels for non-hazardous landfill disposal. All of the petroleum contaminated soil was staged on site beside the excavation until transportation and disposal was arranged. The soil was disposed at ES&J Enterprises at 1555 Holland Road in Autryville, NC as "TPH contaminated non hazardous soil". Restoration of the site was conducted by backfilling and compacting with local borrow soil. A photocopy of the manifested soil disposal approval is provided in Appendix B. Manifests are for the total soil volume removed from 3 tank removals at Tarawa Terrace, Tanks #1, #2, and #3. The excavated soils were combined as one removal action. Separate reports will be provided for Tanks #2 and #3. The laboratory analytical reports for the disposal characterization analyses is provided in Appendix D.

4.0 CONCLUSIONS AND RECOMMENDATIONS

On October 3, 2006 Shaw removed a 500 gallon single walled steel UST, Tank #1, from the former Tarawa Terrace School Building TT-48, Camp Lejeune, North Carolina. The UST had previously contained heating oil. The removal activities revealed soil staining and the presence of a slight petroleum hydrocarbon odor after the UST was removed. A total of approximately 103 cubic yards of soil was removed for off-site disposal to meet the NCDENR requirements. Groundwater was encountered during over excavation activities at an approximate depth of 6.5 feet bls.

Soil sample laboratory analytical results from both the initial excavation and over excavation are presented in *Tables 3.1* and *3.2* and are summarized below.

- *TPH-DRO/GRO Results*: Soil samples TT-001 through TT-005 from the sidewalls and beneath the UST detected TPH-DRO above the soil action level of 10 mg/kg ranging from 692 mg/kg to 2220 mg/kg and TPH-GRO above the soil action level of 10 mg/kg ranging from 17.2 mg/kg to 182 mg/kg in. After additional excavation to remove contaminated soil, MADEP sampling was performed.

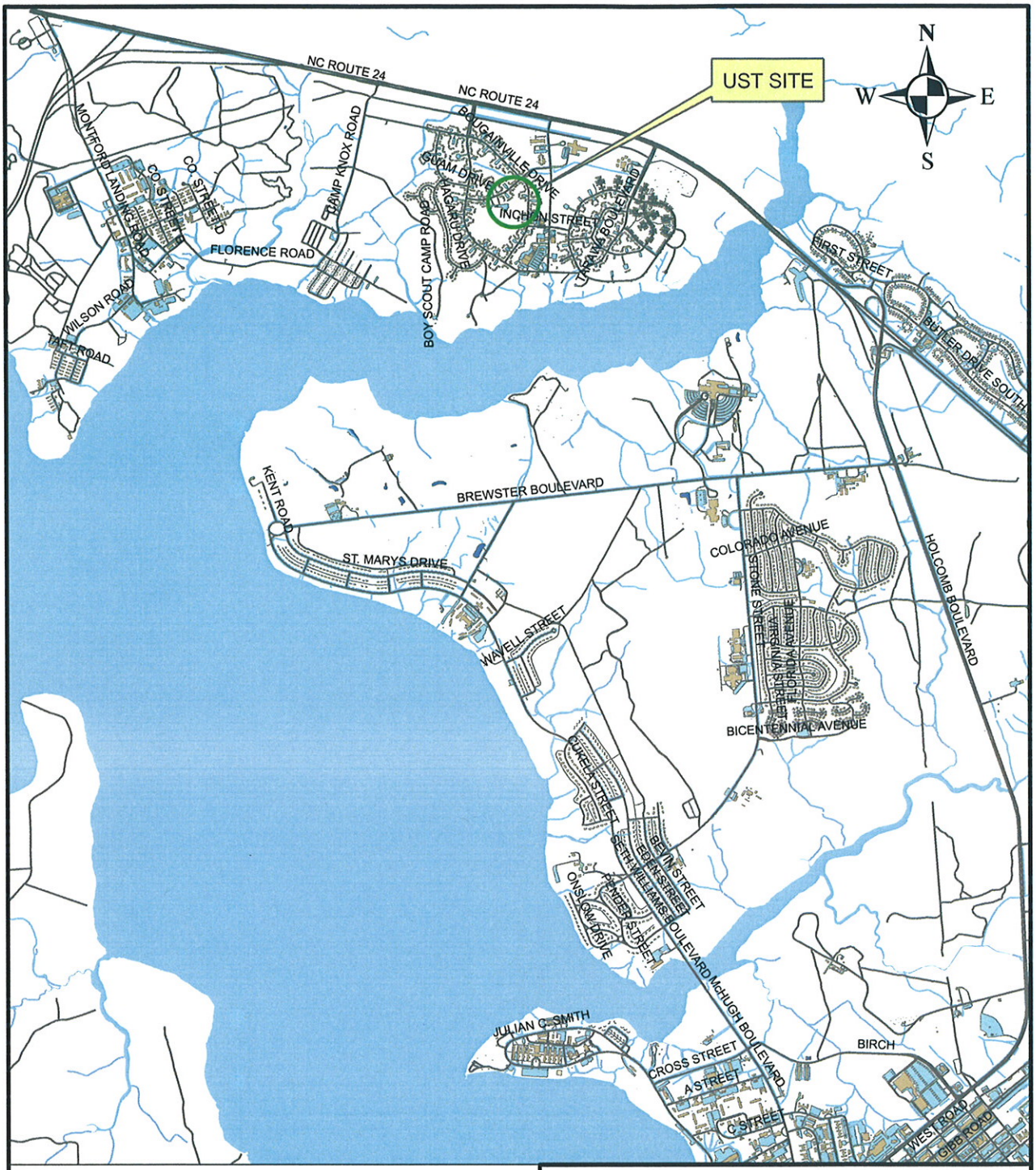
- *MADEP-EPH/VPH Results*: Soil samples taken after the over excavation had analytical results that were not above North Carolina's Industrial, Residential or Soil-to-Groundwater MSCCs.

- *VOC and SVOC Results*: Soil samples taken after the over excavation had analytical results that were not above North Carolina's Industrial, Residential or Soil-to-Groundwater MSCCs.

A groundwater sample was collected from a temporary monitoring well on November 2, 2006. Groundwater analytical results detected benzene (1.9 µg/l), ethylbenzene (50.2 µg/l), Bis(2-ethylhexyl)phthalate (11.4 µg/l), and the C_9-C_{22} hydrocarbon range aromatics (463 µg/l) at concentrations in excess of the North Carolina Groundwater Quality Standards (GWQS) of 1 µg/l, 29 µg/l, 3 µg/l, and 210 µg/l, respectively.

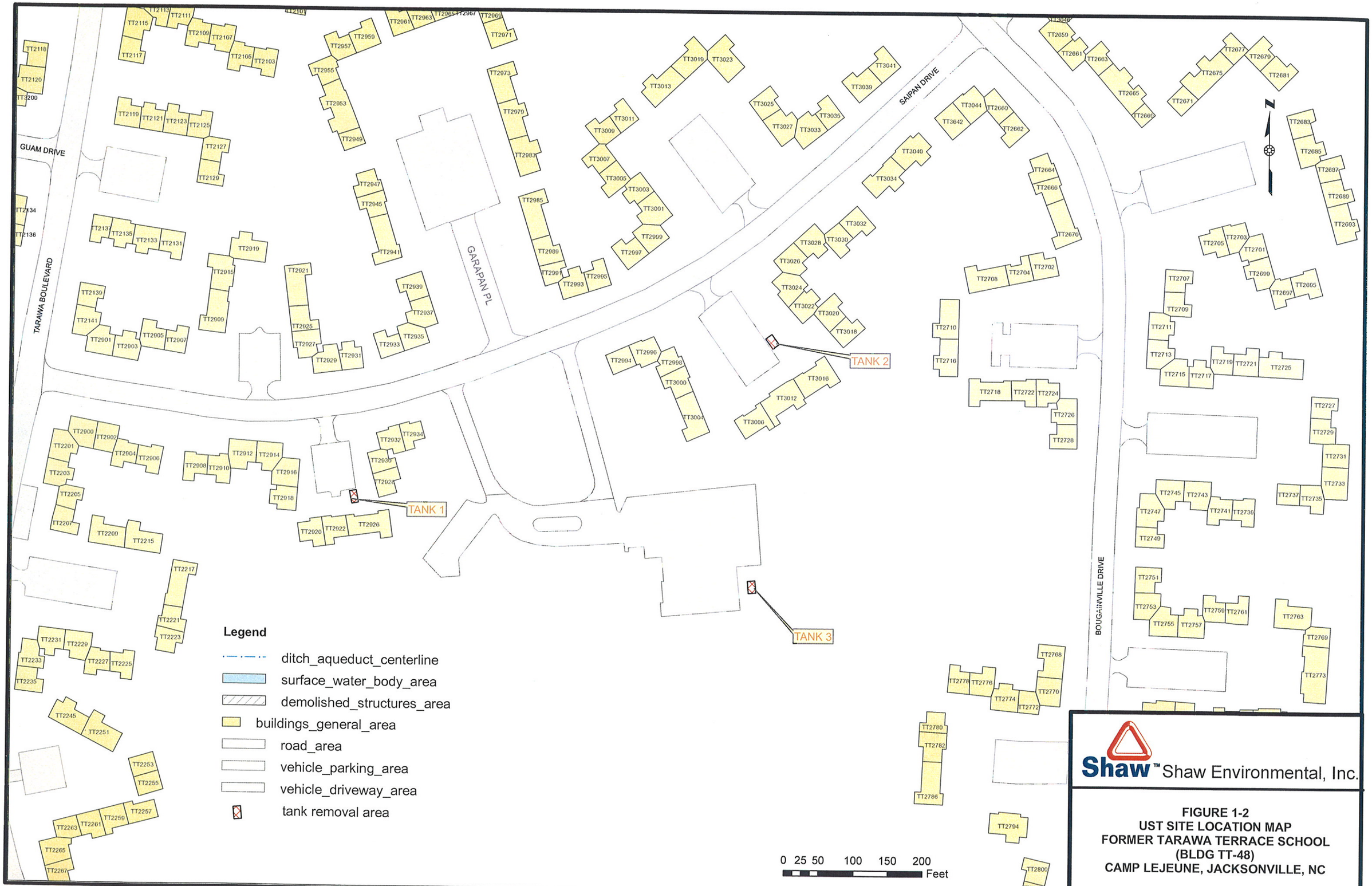
Based on the results of the soil samples collected from the former UST excavation, Shaw recommends that no further action for soil be required. Because benzene, ethylbenzene, Bis(2-ethylhexyl)phthalate, and the C_9-C_{22} hydrocarbon range aromatics were detected in groundwater at concentrations above the GWQS, a Limited Site Assessment Report with respect to the groundwater is recommended.

FIGURES



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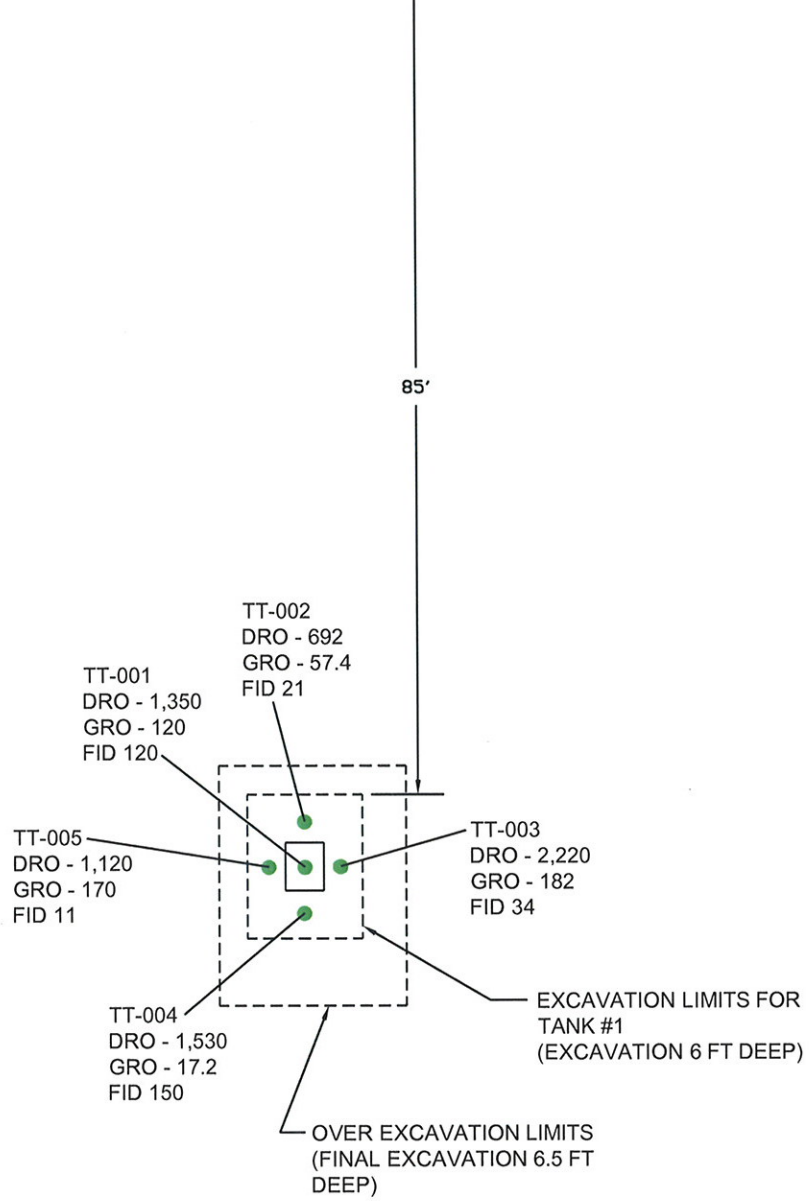
FIGURE 1.1
UST REMOVAL SITE
VICINITY MAP
FORMER TARAWA TERRACE SCHOOL
(BLDG TT-48)
CAMP LEJEUNE, NC



Shaw™ Shaw Environmental, Inc.

FIGURE 1-2
UST SITE LOCATION MAP
FORMER TARAWA TERRACE SCHOOL
(BLDG TT-48)
CAMP LEJEUNE, JACKSONVILLE, NC

SAIPAN DRIVE



LEGEND:

●	SAMPLE LOCATION
TT-004	SAMPLE ID
FID 150	FID READING AT TIME OF EXCAVATION

20 0 20

1 inch = 20 ft.

NOTES:
DRO/GRO UNITS ARE IN mg/kg
FID UNITS IN ppm

REVISIONS

REV	DATE	BY	CHK'D	APP'VD	DESCRIPTION/ISSUE

Shaw Environmental, Inc. PROJECT NO.109972

DESIGNED BY	RBK	CHECKED BY	RBK
DRAWN BY	JEL	APPROVED BY	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NORFOLK, VIRGINIA
NAVAL STATION
MCB CAMP LEJEUNE
JACKSONVILLE, N.C.

TT-48 TANK #1 REMOVAL SITE
CAMP LEJEUNE, JACKSONVILLE, NC

500 GALLON HEATING OIL TANK

SCALE: AS SHOWN	SIZE: A
DELIVERY ORDER NO. 033	
CONSTR. CONTRACT NO. N62470-97-D-5000	
NAVFAC DRAWING NO.	
SHEET I.D. 1.3	

TABLES

TABLE 3.1

Tarawa Terrace Building TT-48 UST Tank #1
Soil Confirmation Samples
TPH-GRO/DRO Analytical Results

	Sample Number	TT-001	TT-002	TT-003	TT-004	TT-005
	Location	Under Center of UST	North Side of UST	East Side of UST	South Side of UST	West Side of UST
	Date Sampled	10/3/2006	10/3/2006	10/3/2006	10/3/2006	10/3/2006
	Depth (feet bls)	6.0	6.0	6.0	6.0	6.0
Parameter						
TPH (mg/kg)	NC Action Level					
DRO	10	**1350**	**692**	**2220**	**1530**	**1120**
GRO	10	**120**	**57.4**	**182**	**17.2**	**170**

ed above Laboratory Method Limit
Bold = Detected Above NCDENR Action Level

Samples analyzed by Accutest

Table 3-2
Tarawa Terrace Building TT-48 Tank #1
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	10/13/2006		Project Number and Name:	109972 TT-48 Soil Confirmation Tank #1																	
Analytical Method:				8260B																	
Contaminant of Concern				Acetone	Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	Carbon disulfide	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Di-Isopropyl ether	Dibromochloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
Sample ID	Date Collected	Sample Depth (ft bgs)																			
TT-012 Re-excavation	10/13/2006	6.0		<0.053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
TT-013 Re-excavation	10/13/2006	6.0		<0.053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
TT-014 Re-excavation	10/13/2006	6.0		<0.056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
TT-015 Re-excavation	10/13/2006	6.0		<0.055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
Soil to Groundwater MSCC (mg/kg)				3	0.0056	NS	NS	NS	NS	0.001	4	NS	4	0.045	0.0018	0.0029	0.37	0.002	0.35	0.0009	0.38
Residential MSCC (mg/kg)				1564	22	NS	NS	NS	NS	100	1564	NS	1560	1	7	9	156	7	156	4	320
Industrial/Commercial MSCC (mg/kg)				40800	200	NS	NS	NS	NS	938	40880	NS	40000	10	63	84	4088	68	4000	33	8200

Date:	10/13/2006		Project Number and Name:	109972 TT-48 Soil Confirmation Tank #1																	
Analytical Method:				8260B																	
Contaminant of Concern				trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	4-Methyl-2-pentanone	Methyl bromide	Methyl chloride	Methylene chloride	Methyl ethyl ketone	Methyl tert Butyl ether	Styrene	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	Xylenes (total)
Sample ID	Date Collected	Sample Depth (ft bgs)																			
TT-012 Re-excavation	10/13/2006	6.0		<0.0053	<0.0053	<0.027	<0.027	<0.0053	<0.0053	<0.011	<0.027	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.016
TT-013 Re-excavation	10/13/2006	6.0		<0.0053	<0.0053	<0.027	<0.027	<0.0053	<0.0053	<0.011	<0.027	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.016
TT-014 Re-excavation	10/13/2006	6.0		<0.0056	<0.0056	<0.028	<0.028	<0.0056	<0.0056	<0.011	<0.028	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056	<0.017
TT-015 Re-excavation	10/13/2006	6.0		<0.0055	<0.0055	<0.027	<0.027	<0.0055	<0.0055	<0.011	<0.027	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.016
Soil to Groundwater MSCC (mg/kg)				0.0009	0.24	1.9	NS	NS	0.02	0.02	0.7	0.92	2.24	NS	0.001	NS	0.0074	7	0.0183	NS	5
Residential MSCC (mg/kg)				4	1560	625	NS	NS	49	85	9385	156	3128	NS	3	NS	12	3200	58	NS	32000
Industrial/Commercial MSCC (mg/kg)				33	40000	16352	NS	NS	440	763	245280	4088	81760	NS	28	NS	110	82000	520	NS	200000

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3-2
Tarawa Terrace Building TT-48 Tank #1
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	10/13/2006		Project Number and Name:	109972 TT-49 Soil Confirmation															
Analytical Method:				8270C															
Contaminant of Concern				Benzoic acid	2-Chlorophenol	4-Chloro-3-methylphenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
TT-012 Re-excavation	10/13/2006	6.0		<1.00	<0.21	<0.21	<0.21	<0.21	<1.00	<0.42	<0.21	<0.21	<0.21	<1.00	<1.00	<0.21	<0.21	<0.21	<0.21	<0.21
TT-013 Re-excavation	10/13/2006	6.0		<1.00	<0.20	<0.20	<0.20	<0.20	<1.00	<0.40	<0.20	<0.20	<0.20	<1.00	<1.00	<0.20	<0.20	<0.20	<0.20	<0.20
TT-014 Re-excavation	10/13/2006	6.0		<1.00	<0.20	<0.20	<0.20	<0.20	<1.00	<0.41	<0.20	<0.20	<0.20	<1.00	<1.00	<0.20	<0.20	<0.20	<0.20	<0.20
TT-015 Re-excavation	10/13/2006	6.0		<1.00	<0.21	<0.21	<0.21	<0.21	<1.00	<0.42	<0.21	<0.21	<0.21	<1.00	<1.00	<0.21	<0.21	<0.21	<0.21	<0.21
Soil to Groundwater MSCC (mg/kg)				NS	NS	NS	NS	0.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8	11
Residential MSCC (mg/kg)				NS	NS	NS	NS	312	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	940	469
Industrial/Commercial MSCC (mg/kg)				NS	NS	NS	NS	8176	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	24000	12264

Date:	10/13/2006		Project Number and Name:	109972 TT-48 Soil Confirmation Tank #1															
Analytical Method:				8270C															
Contaminant of Concern				4-Chlorophenyl phenyl ether	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenzo(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	Bis(2-ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
TT-012 Re-excavation	10/13/2006	6.0		<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.42	<0.21	<0.21	<0.42	<0.42	<0.42	<0.42	<0.42	<0.21	<0.21	<0.21
TT-013 Re-excavation	10/13/2006	6.0		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.20	<0.20	<0.40	<0.40	<0.40	<0.40	<0.40	<0.20	<0.20	<0.20
TT-014 Re-excavation	10/13/2006	6.0		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.41	<0.20	<0.20	<0.41	<0.41	<0.41	<0.41	<0.41	<0.20	<0.20	<0.20
TT-015 Re-excavation	10/13/2006	6.0		<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.42	<0.21	<0.21	<0.42	<0.42	<0.42	<0.42	<0.42	<0.21	<0.21	<0.21
Soil to Groundwater MSCC (mg/kg)				NS	7	24	1	NS	NS	NS	0.17	4.7	NS	NS	NS	NS	6.67	276	44	NS
Residential MSCC (mg/kg)				NS	1400	1400	27	NS	NS	NS	0.088	62	NS	NS	NS	NS	46	620	620	NS
Industrial/Commercial MSCC (mg/kg)				NS	36000	36000	240	NS	NS	NS	0.78	1635	NS	NS	NS	NS	410	16400	16400	NS

Indicate method detection limit for contaminants when analyze
but not detected (i.e., <1.0)
List any contaminant detected above the method detection limi
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3-2
Tarawa Terrace Building TT-48 Tank #1
VOC and SVOC Confirmation Soil Sample Analytical Results

Date:	10/13/2006		Project Number and Name:	109972 TT-49 Soil Confirmation															
Analytical Method:				8270C															
Contaminant of Concern				Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	4-Bromophenyl phenyl eth	Butyl benzyl phthalate	Benzyl alcohol	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Chrysene	Bis(2-chloroethoxy)metha	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)ethe
Sample ID	Date Collected	Sample Depth (ft bgs)																	
TT-012 Re-excavation	10/13/2006	6.0		<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.42	<0.21	<0.21	<0.42	<0.21	<0.21	<0.21	<0.21	<0.21
TT-013 Re-excavation	10/13/2006	6.0		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.42	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
TT-014 Re-excavation	10/13/2006	6.0		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.41	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
TT-015 Re-excavation	10/13/2006	6.0		<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.42	<0.21	<0.21	<0.42	<0.21	<0.21	<0.21	<0.21	<0.21
Soil to Groundwater MSCC (mg/kg)				995	0.34	0.091	1	6720	12	NS	NS	NS	NS	NS	NS	38	NS	0.0002	NS
Residential MSCC (mg/kg)				4600	0.88	0.088	0.88	469	9	NS	NS	NS	NS	NS	NS	88	NS	0.58	NS
Industrial/Commercial MSCC (mg/kg)				122000	8	0.78	8	12264	78	NS	NS	NS	NS	NS	NS	780	NS	5.2	NS

Date:	10/13/2006		Project Number and Name:	109972 TT-48 Soil Confirmation Tank #1															
Analytical Method:				8270C															
Contaminant of Concern				Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	1,2,4-Trichlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
TT-012 Re-excavation	10/13/2006	6.0		<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.42	<0.42	<0.42	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
TT-013 Re-excavation	10/13/2006	6.0		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.40	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
TT-014 Re-excavation	10/13/2006	6.0		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.41	<0.41	<0.41	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
TT-015 Re-excavation	10/13/2006	6.0		<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.42	<0.42	<0.42	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
Soil to Groundwater MSCC (mg/kg)				0.26	NS	NS	3	NS	3	NS	NS	NS	0.58	NS	NS	NS	60	286	2.6
Residential MSCC (mg/kg)				3.1	NS	NS	0.88	NS	63	NS	NS	NS	63	NS	NS	NS	469	469	156
Industrial/Commercial MSCC (mg/kg)				73	NS	NS	8	NS	1635	NS	NS	NS	1635	NS	NS	NS	12264	12264	4088

Indicate method detection limit for contaminants when analyze
but not detected (i.e., <1.0)
List any contaminant detected above the method detection limi
MSCC = Maximum Soil Contamination Concentration
ft bgs = feet below ground surface
Results must be reported in mg/kg
mg/kg = milligrams per kilogram
NA = not applicable
NS = no standard

Table 3.3
Tarawa Terrace Building TT-48 Tank #1
MADEP-EPH/VPH Summary Confirmation soil Sample Analytical Results

Sample Information and Analytical Results TT-48 Tank 1									
Method for Ranges: MADEP-EPH/VPH		**Sample Identification**			TT-012	TT-013	TT-014	TT-015	
Hydrocarbon Ranges	**Units of Measure**	**Residential**	**Industrial**	**Soil to Water**					
C9-C18 Aliphatics	mg/kg	9,386	245,280	3,255	<7.9	<8.0	<8.3	<8.0	
C19-C36 Aliphatics	mg/kg	93,860	#	#	<7.9	<8.0	<8.3	<8.0	
C9-C22 Aromatics (Unadj.)	mg/kg	469	12,264	34	<7.9	<8.0	<8.3	<8.0	
C5-C8 Aliphatics	mg/kg	939	24,528	72	<5.5	<4.0	<4.2	<5.3	

= Health Based Level >100% Solubility

Table 3.4
Building TT-48 Tank #1
VOC and SVOC Groundwater Sample Analytical Results

Date:	11/2/2006		Project Number and Name:	109972 Building TT-48 Tank #1																
Analytical Method:				601/602																
Contaminant of Concern				Acetone	Benzene	Bromodichloromethane	Bromoform	Chlorobenzene	Chloroethane	Chloroform	Carbon disulfide	Carbon tetrachloride	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloropropane	Dibromochloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
TT-48 Tank #1 TT-TW-001	11/2/2006	N/A		N/A	**1.9**	N/A	N/A	<1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			GWQS (ug/L)	700	1	NS	NS	NS	NS	0.00019	700	NS	700	7	0.38	0.56	0.002	70	0.2	70
			GCL (ug/L)	700000	5000	NS	NS	NS	NS	190	700000	NS	700000	7000	380	560	68	70000	200	70000

Date:	11/2/2006		Project Number and Name:	109972 Building TT-48 Tank #1																
Analytical Method:				601/602																
Contaminant of Concern				trans-1,3-Dichloropropene	Ethylbenzene	2-Hexanone	4-Methyl-2-pentanone	Methyl bromide	Methyl chloride	Methylene chloride	Methyl ethyl ketone	Methyl Turt Butyl Ether	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	Xylenes (total)
Sample ID	Date Collected	Sample Depth (ft bgs)																		
TT-48 Tank #1 TT-TW-001	10/3/2005	N/A		N/A	**50.2**	N/A	N/A	N/A	N/A	N/A	N/A	<1	N/A	N/A	N/A	N/A	<1	N/A	N/A	<3
			GWQS (ug/L)	0.2	29	280	NS	NS	2.6	5	170	0.1	NS	0.17	NS	0.7	1000	2.8	0.015	530
			GCL (ug/L)	200	29000	280000	NS	NS	2600	5000	170000	100000	NS	170	NS	700	257500	2800	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
GCL = Groundwater Contamination Level
Results must be reported in ug/L
ug/L = micrograms per liter
J = detectable concentration below reporting limit
NA = not applicable
NS = no standard

Table 3.4
Building TT-48 Tank #1
VOC and SVOC Groundwater Sample Analytical Results

Date:	11/2/2006		Project Number and Name:	109972 Building TT-48 Tank #1																
Analytical Method:				625																
Contaminant of Concern				Benzoic acid	2-Chlorophenol	4-Chloro-3-methylphenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol	2-Methylphenol	3&4-Methylphenol	2-Nitrophenol	4-Nitrophenol	Pentachlorophenol	Phenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	Acenaphthene	Acenaphthylene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
TT-48 Tank #1 TT-TW-001	11/2/2006	N/A		<24	<4.8	<4.8	<4.8	<4.8	<24	<9.6	<4.8	<4.8	<4.8	<24	<24	<4.8	<4.8	<4.8	<4.8	<4.8
			GWQS (ug/L)	28000	NS	NS	NS	140	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	80	210
			GCL (ug/L)	1450000	NS	NS	NS	140000	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2120	1965

Date:	11/2/2006		Project Number and Name:	109972 Building TT-48 Tank #1																
Analytical Method:				625																
Contaminant of Concern				4-Chlorophenyl phenyl ethe	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2,4-Dinitrotoluene	2,6-Dinitrotoluene	3,3'-Dichlorobenzidine	Dibenzo(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	Di-n-octyl phthalate	Diethyl phthalate	Dimethyl phthalate	Bis(2-ethylhexyl)phthalate	Fluoranthene	Fluorene	Hexachlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
TT-48 Tank #1 TT-TW-001	10/3/2005	N/A		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	6.8	<4.8	<4.8	3.9 J	**11.4**	<4.8	<4.8	<4.8
			GWQS (ug/L)	NS	620	620	75	NS	NS	NS	0.0047	28	NS	NS	NS	NS	3	280	280	NS
			GCL (ug/L)	NS	72500	61500	39500	NS	NS	NS	0.25	2800	NS	NS	NS	NS	3000	280	950	NS

Indicate method detection limit for contaminants when analyzed but not detected (i.e., <1.0)
List any contaminant detected above the method detection limit
Detectable concentration exceeds GWQS
GWQS = Groundwater Quality Standard
GCL = Groundwater Contamination Level
Results must be reported in ug/L
ug/L = micrograms per liter
J = detectable concentration below reporting limit
NA = not applicable
NS = no standard

Table 3.4
Building TT-48 Tank #1
VOC and SVOC Groundwater Sample Analytical Results

Date:	11/2/2006		Project Number and Name:	109972 Building TT-48 Tank #1																
Analytical Method:				625																
Contaminant of Concern				Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	4-Bromophenyl phenyl et	Butyl benzyl phthalate	Benzyl alcohol	2-Chloronaphthalene	4-Chloroaniline	Carbazole	Chrysene	Bis(2-chloroethoxy)meth	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl)eth
Sample ID	Date Collected	Sample Depth (ft bgs)																		
TT-48 Tank #1 TT-TW-001	11/2/2006	N/A		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
		GWQS (ug/L)		2100	0.05	0.0047	0.047	210	0.47	NS	NS	NS	NS	NS	NS	5	NS	0.031	NS
		GCL (ug/L)		2100	22	1.5	0.6	210	0.47	NS	NS	NS	NS	NS	NS	5	NS	31	NS

Date:	11/2/2006		Project Number and Name:	109972 Building TT-48 Tank #1																
Analytical Method:				625																
Contaminant of Concern				Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthalene	2-Nitroaniline	3-Nitroaniline	4-Nitroaniline	Naphthalene	Nitrobenzene	N-Nitroso-di-n-propylamine	N-Nitrosodiphenylamine	Phenanthrene	Pyrene	1,2,4-Trichlorobenzene
Sample ID	Date Collected	Sample Depth (ft bgs)																		
TT-48 Tank #1 TT-TW-001	10/3/2005	N/A		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<9.6	<9.6	<9.6	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
		GWQS (ug/L)		44	NS	NS	0.047	NS	28	NS	NS	NS	21	NS	NS	NS	210	210	70
		GCL (ug/L)		440	NS	NS	31	NS	12500	NS	NS	NS	15500	NS	NS	NS	410	210	9500

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
GCL = Groundwater Contamination Level
Results must be reported in ug/L
ug/L = micrograms per liter
J = detectable concentration below reporting limit
NA = not applicable
NS = no standard

Table 3.5
Building TT-48 Tank #1
MADEP-EPH/VPH Summary Groundwater Sample Analytical Results

Method for Ranges: MADEP-EPH/VPH		**Sample Identification**	TT-TW-001
Hydrocarbon Ranges	**Units of Measure**	**GWQS**	
C9-C18 Aliphatics	ug/l	4,200	<100
C19-C36 Aliphatics	ug/l	42,000	<100
C9-C22 Aromatics (Unadj.)	ug/l	210	**463**
C5-C8 Aliphatics	ug/l	420	<75

Bold = Detected Above Laboratory Reporting Limit

Shaded = Above GWQS

APPENDIX A

SITE INVESTIGATION REPORT for PERMANENT CLOSURE or CHANGE in SERVICE OF UST (UST-2 FORM)

24 HOUR RELEASE AND UST REPORTING FORM (UST FORM 61)

UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

FOR TANKS IN NC

Return completed form to:
The DWM Regional office in the area the facility is located. SEE MAP ON THE BACK OF THIS FORM FOR REGIONAL OFFICE ADDRESSES. Return the yellow copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED".

STATE USE ONLY:
I.D. #
Date Received

I. OWNERSHIP OF TANKS

COMMANDING GENERAL, MCB
Owner Name (Corporation, Individual, Public Agency, or Other Entity)
P.O. BOX 20004
Street Address
JACKSONVILLE | ONSLOW
City | County
NORTH CAROLINA | 28542
State | Zip Code
910 | 451-5068
Area Code | Phone Number

II. LOCATION OF TANKS

TARAWA TERRACE BUILDING TT-48
Facility Name or Company
NON-REGULATED
Facility ID # (If known)
SAIPAN DRIVE AND GARAPAN PLAZA
Street Address
CAMP LEJEUNE | ONSLOW | 28542
City | County | Zip Code
910 | 451-9017
Area Code | Phone Number

III. CONTACT PERSONNEL

Name ANDREW SMITH | Job Title ENVIRONMENTAL ENGINEER | Tel. No. 910 451-9017
Closure Contractor JAMES WILSON | Address ALPHARETTA, GA | Tel. No. 770 667-7798
Primary Consultant JAMES WILSON | Address ALPHARETTA, GA | Tel. No. 770 667-7798
Lab ACCUTEST | Address ORLANDO, FL | Tel. No. 407 425-6700

IV. UST INFORMATION / V. EXCAVATION CONDITION

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in excavation Yes	Water in excavation No	Free product Yes	Free product No	Notable odor or visible soil contamination Yes	Notable odor or visible soil contamination No
1	500	4'X5.5'	HEATING OIL		✓		✓		✓

VI. ADDITIONAL INFORMATION

See reverse side of pink copy (owner's copy) for additional information required by NC DWM in the written report and sketch.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

VII. CHECKLIST (CHECK THE ACTIVITIES COMPLETED)

PERMANENT CLOSURE
(For Removal or Abandonment-in-Place)

- ☒ Contact local fire marshal
- ☒ Notify DWM Regional Office before abandonment
- ☐ Drain and flush piping into tank
- ☒ Remove all product and residuals from tank
- ☒ Excavate down to tank
- ☒ Clean and inspect tank
- ☒ Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps, and all other tank fixtures
- ☒ Cap or plug all lines except the vent and fill lines
- ☒ Purge the tank of all product and flammable vapors
- ☒ Cut one or more large holes in the tank
- ☒ Backfill the area

Date tank(s) Permanently Closed: 10/03/06

Date of Change in-service: 10/03/06

ABANDONMENT IN PLACE

- ☐ Fill tank until material overflows tank opening
- ☐ Plug or cap all openings
- ☐ Disconnect and cap or remove vent line
- ☐ Solid inert material used --specify

REMOVAL

- ☒ Create vent hole
- ☒ Label tank
- ☒ Dispose of tank in approved manner. Final tank destination:

BASE LANDFILL

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete

Print name and official title of owner or owner's authorized representative	Signature	Date Signed
JAMES R. WILSON	[signature]	10/6/06

Completed UST closure reports, along with a copy of the UST-2 form, should be received by the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities.

Effective February 1, 1995, all UST closure reports must be submitted in the format provided in the UST-12 form. A copy of the UST-12 form can be obtained from the Central Office for a fee of $4.00.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dump sites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage which occurs.

NCDENR

North Carolina Department of Environment and Natural Resources

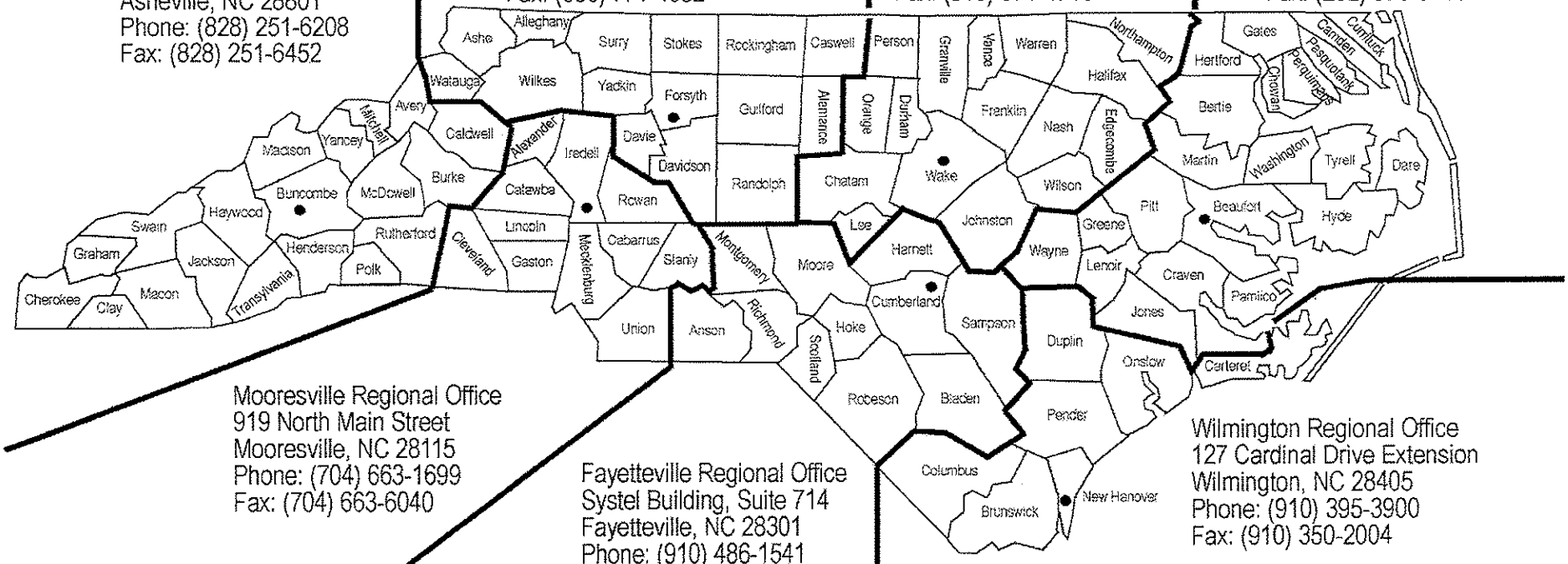
Division of Waste Management
UST Section Central Office
1637 Mail Service Center
Raleigh, NC 27699-1637
(919) 733-8486 FAX (919) 733-9413

Asheville Regional Office
Interchange Building
59 Woodfin Place
Asheville, NC 28801
Phone: (828) 251-6208
Fax: (828) 251-6452

Winston-Salem Regional Office
585 Waughtown Street
Winston-Salem, NC 27107
Phone: (336) 771-4600
Fax: (336) 771-4632

Raleigh Regional Office
1628 Mail Service Center
Raleigh, NC 27699
Phone: (919) 571-4700
Fax: (919) 571-4718

Washington Regional Office
943 Washington Square Mall
Washington, NC 27889
Phone: (252) 946-6481
Fax: (252) 975-3716



Mooresville Regional Office
919 North Main Street
Mooresville, NC 28115
Phone: (704) 663-1699
Fax: (704) 663-6040

Fayetteville Regional Office
Systel Building, Suite 714
Fayetteville, NC 28301
Phone: (910) 486-1541
Fax: (910) 486-0707

Wilmington Regional Office
127 Cardinal Drive Extension
Wilmington, NC 28405
Phone: (910) 395-3900
Fax: (910) 350-2004

Department of Environment and Natural Resources, Division of Waste Management, Underground Storage Tank Section

24-Hour Release and UST Leak Reporting Form

This form should be completed and submitted to the UST Section's regional office following a known or suspected release from an underground storage tank (UST) system. This form is required to be submitted within 24 hours of discovery of a known or suspected release.

(DWM USE ONLY)
Incident # _____ Risk (H,I,L,U)_____
Received On _____ Received By _____
Reported by (*circle one*): Phone, Fax or Report
Region _____

Suspected Contamination? (Y/N) Y
Confirmed GW Contamination? (Y/N) N
Confirmed Soil Contamination ?(Y/N) Y
Free Product ? (Y/N) N If Yes, State Greatest Thickness _____

Facility ID Number NA
Date Leak Discovered 10.13.06
Comm/~~Non-Commercial~~? _____
Reg/~~Non-regulated~~? _____

INCIDENT DESCRIPTION

Incident Name: Former TT School Area - Tank 1

Address: Saipan Drive | County: Onslow

City/Town: Camp Lejeune | Regional Office (*circle one*): Asheville, Mooresville, Fayetteville, Raleigh, Washington, ~~Wilmington~~, Winston-Salem

Latitude (dd.mm.ssss): 34.44.80 Longitude (ddd.mm.ssss) : 77.22.41 Confirmed by GPS? (Y/N) N

Briefly describe suspected or confirmed release: *(including but not limited to: nature of release, date of release, amount of release, amount of free product present and recovery efforts, initial responses conducted, impacts to receptors)*

Soil samples taken from former UST basin indicate petroleum contamination is present. Overexcavation of soils within the basin will be conducted in an attempt to minimize contamination. There is no indication of impact to groundwater at this time.

HOW RELEASE WAS DISCOVERED

(Check one)

- [x] Release Detection Equipment or Methods
- [ ] During UST Closure/Removal
- [ ] Property Transfer
- [ ] Visual/Odor
- [ ] Water in Tank
- [ ] Water Supply Well Contamination
- [ ] Groundwater Contamination
- [ ] Surface Water Contamination
- [ ] Other (specify) _____

SOURCE OF CONTAMINATION

Primary Source of Contamination *(Check one)*

- [ ] Suspected UST Release
- [x] Confirmed UST Release *(Also check one below):*
  - [ ] A. Dispenser
  - [ ] B. Line Release
  - [x] C. Tank Release
  - [ ] D. Spill/Overfill
  - [ ] E. Exact Failure Location Unknown or Multiple Failures
- [ ] Unknown Source (Believed to be UST Source, explain in "Incident Description" above)

Primary Contaminant Type *(Check one)*

- [ ] Gasoline/Diesel/Kerosene
- [x] Heating Oil
- [ ] Other Petroleum Products
- [ ] Metals
- [ ] Other Inorganics
- [ ] Other Organics

Location *(Check one)*

- [x] Facility
- [ ] Residence
- [ ] Other

Setting *(Check one)*

- [x] Residential
- [ ] Industrial
- [ ] Urban
- [ ] Rural

Ownership
1. Municipal 2. Military 3. Unknown 4. Private 5. Federal 6. County 7. State

Operation Type
1. Public Service 2. Agricultural 3. Residential 4. Education/Relig. 5. Industrial 6. Commercial 7. Mining

IMPACT ON DRINKING WATER SUPPLIES

Water Supply Wells Affected? 1. Yes 2. No 3. Unknown

Number of Water Supply Wells Affected _____

Water Supply Wells Contaminated: (*Include Users Names, Addresses and Phone Numbers. Attach additional sheet if necessary*)

1.

2.

3.

UST SYSTEM OWNER

UST Owner/Company			
Commanding Officer, MCB Camp Lejeune			
Point of Contact MCBCL Environmental Management Division		Address Bldg 12 McHugh Blvd	
City Camp Lejeune, NC	State NC	Zip Code 28542	Telephone Number 910.451.5068

UST SYSTEM OPERATOR

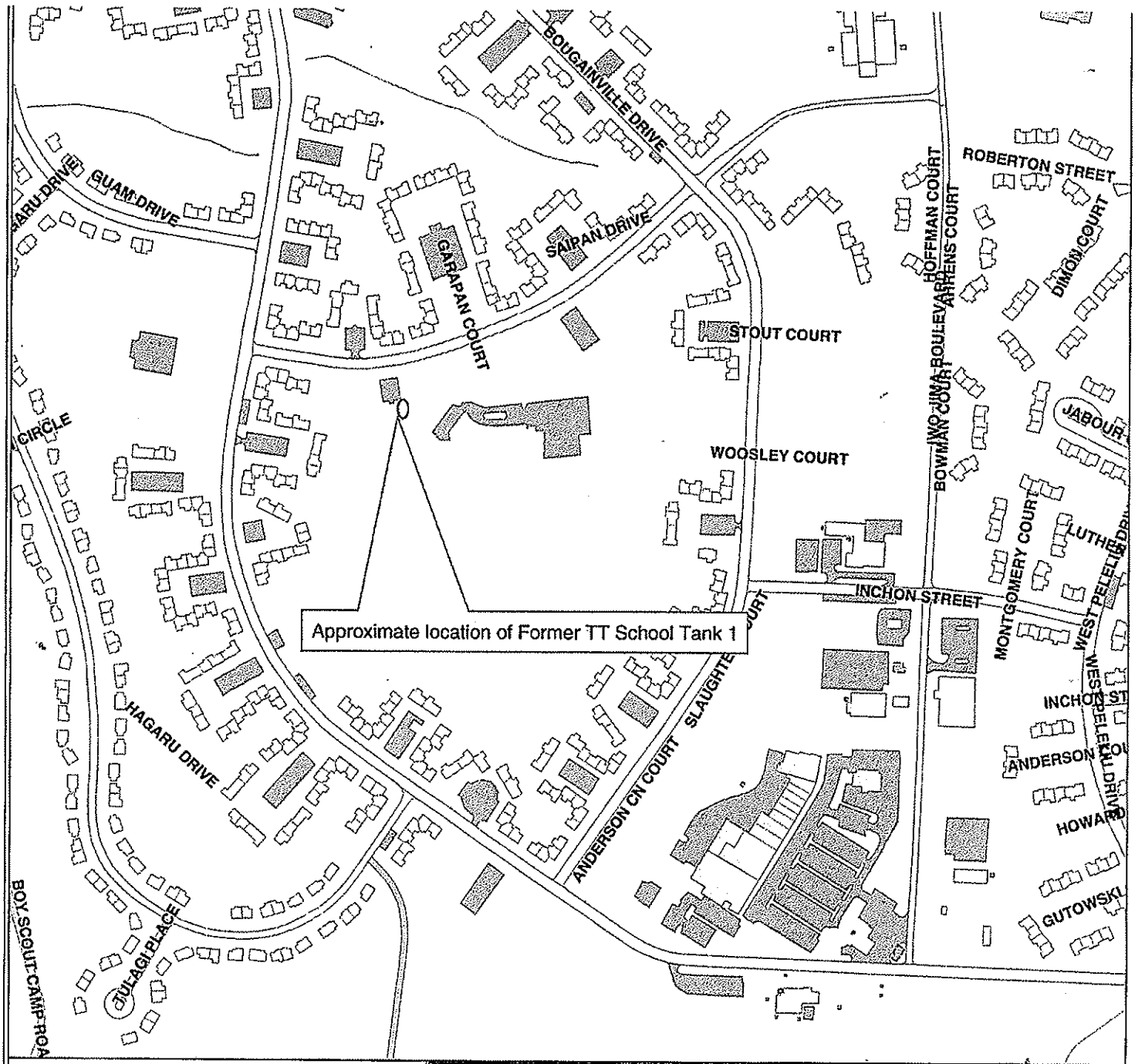
UST Operator/Company NA - Tank was not in use		Address	
City	State	Zip Code	Telephone Number

LANDOWNER AT LOCATION OF UST INCIDENT

Landowner Commanding Officer, MCB Camp Lejeune		Address Bldg 12 McHugh Blvd	
City Camp Lejeune, NC	State NC	Zip Code 28542	Telephone Number 910.451.5068

Draw Sketch of Area (showing two major road intersections) or Attach Map

Person Reporting Incident Andrew Smith	Company MCBCL Environmental Management Division	Telephone Number 910.451.5068
Title Environmental Engineer	Address Bldg 12 McHugh Blvd	Date 10.13.06



Author: A. Smith
Organization: Camp Lejeune Environmental Management Division
Telephone: 910.451.9017

N

0.01 0 0.01 0.02 0.03 Miles

Map Projection: UTM (NAD83, GRS 1980)

Map Generated using the Geographic Information System
Managed by the GIS Office
Communications/Information Technology Services Division (CITSD)
Business & Logistics Support Department (BLSD)

NOTE: THIS MAP IS FOR REFERENCE ONLY
THIS MAP IS FOR OFFICIAL USE ONLY (FOUO)

Although every effort has been made to ensure the accuracy of information, errors and conditions originating from the physical sources used to develop the database may be reflected in the data supplied. The requestor must be aware of data conditions and ultimately bear responsibility for the appropriate use of the information with respect to possible errors, original map scale, collection methodology, currency of data, and other specific conditions to certain data.

Former Tarawa Terrace School
(Bldg TT-48)

Note: Tank is not drawn to scale

APPENDIX B

UST AND SOIL DISPOSAL MANIFEST

Tank Disposal Manifest

1. **Tank Owner:**
   Commanding General, Marine Corps Base, Camp Lejeune, NC 28542
   Attention: I & E Department, Environmental Management Division

2. **Tank Owner/ Authorized Representative:**
   Contact: Bruce Markwick
   Phone: 910 451-9660

3. **Description of Tanks:**

Tank I.D. #	Capacity	Previous Contents	Comments
TT TANK #1	500 GALLON	HEATING OIL	

4. **Transporter:**
   The undersigned Certifies that the above named tank (s) have been demolished and transported to an approved landfill.

Print Name	Signature	Month/Day/Year
Harry Swallows		10/3/06

5. **Disposal Certification:**
   The undersigned certifies that the above named storage tanks (s) have been cut into scrap and accepted by the facility.

   Name of Landfill or receiving Facility:

   J & F Salvage

   Received By:

Print Name	Signature	Month/Day/Year
Todd White		10-22-06

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC6170022580 | Manifest Doc. No. 06519 | 2. Page 1 of

3. Generator's Name and Mailing Address
Commanding General
ACS I&E EMD m/c Base
PSC Box 20004 Camp Lejeune, NC
6. Generator's Phone (910) 451 1482

4. Site: Physical Location
Camp Lejeune
TT II

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name
ES&J Enterprises

8. US EPA ID Number

A. Transporter's Phone
910 567-6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil - NON Haz	001	DT	23.36	TONS
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CDL# 3753391 TRK# 160 Tag # YA 94097

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: EUGENE JONES | Signature | Month 10 Day 31 Year 06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Johnny Tanner | Signature | Month 10 Day 31 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Rick Wms | Signature | Month 10 Day 31 Year 06

GENERATOR — TRANSPORTER — FACILITY

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
NC6170022580	06518	

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
ACS I&E EMD M/C Base
PSC Box 20047 Camp Lejeune, NC
6. Generator's Phone (910) 451 1482

4. Site: Physical Location
CAMP LEJEUNE
T T II

5. Owner of Contamination:
Name:
Address:
Phone #:

TRANSPORTER

7. Transporter 1 Company Name
E S & J ENTERPRISES

8. US EPA ID Number

A. Transporter's Phone
910 567 6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil			24.75	LBS.
b. TPH Contaminated Soil - NON Haz	001	DT	24.75	TONS
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CDL# 3753391 TRK# 160 Tag# YA 94097

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: George L. Taylor
Signature:
Month Day Year: 10 31 06

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Johnny Tanner
Signature:
Month Day Year: 10 31 06

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Rick Wins
Signature:
Month Day Year: 10 31 06

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NCL170022580 | Manifest Doc. No. 06515 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
ACS I&E EMD M/C Base
PSC Box 2004 Camp Lejeune, NC
6. Generator's Phone (910) 451 1482

4. Site: Physical Location
Camp Lejeune
T. T. II

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name: E S & J ENTERPRISES | 8. US EPA ID Number | A. Transporter's Phone: 910 567 6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number: S.R.0.6.0.0.0.3.5.

B. Facility's Phone: (910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil - NON Haz	001	DT	24.76	TONS
c.				
d.				

D. Additional Descriptions for Materials Listed Above
CDL# 3753391 TRK# 160 Tag# VA 94097

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are ~~not~~ subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: EUGENE JONES | Signature | Month 10 Day 30 Year 06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: X Johnny Tanner | Signature X | Month 10 Day 30 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Rick Wms | Signature | Month 10 Day 30 Year 06

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
NC6170002580	06514	

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC-Site EMD m/c Code
PSC Box 20004 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune
T. T II

5. Owner of Contamination:
Name:
Address:
Phone #:

TRANSPORTER

7. Transporter 1 Company Name

8. US EPA ID Number

A. Transporter's Phone 910 - 567-6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH II Contaminated Soil Non Haz	001	DT	23.6	TON
c.				
d.				

D. Additional Descriptions for Materials Listed Above
CDL # 3753391 TRK # 160 Tag # VA 4003

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
George L. Taylor		10	27	06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
X Johnny Tanner	X	10	27	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Rick Sims		10	27	06

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC6170025 80 | Manifest Doc. No. 06513 | 2. Page 1 of

3. Generator's Name and Mailing Address
Commanding General
AC Site EMD M/C Case
PSC Box 2004 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune
T.T. II

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name
ES&J Enterprises

8. US EPA ID Number

A. Transporter's Phone
910 567 6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil - NON Haz	001	DT	25	TON
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CDL # 5[illegible] NC TRK # [illegible] TAG # 2W 3333

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
George L. Tauton	[signature]	10	26	06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	10	26	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Ricky Wms	[signature]	10	26	06

GENERATOR
TRANSPORTER
FACILITY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC6170002580 | Manifest Doc. No. 06510 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC Site EMD M/C Case
PSC Box 20004 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune
T. T. II

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name
ES & J Enterprises

8. US EPA ID Number

A. Transporter's Phone
910 567 6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil - NON Haz	001	DT	23	tons
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CDL # 3412310 TRK# mac 38 Tag# LK3020

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
George L. Taylor	George L. Taylor	10	26	06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
X	X	10	26	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Ricky Wms.	Ricky Wms	10	26	06

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NC6170002580
Manifest Doc. No.: 06612
2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC Site EMS m/c case
PSC Box 20004 Camp Lejeune, NC
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune

5. Owner of Contamination:
Name:
Address:
Phone #:

TRANSPORTER

7. Transporter 1 Company Name
ES&J Enterprises

8. US EPA ID Number

A. Transporter's Phone
910 567 6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil -NON Haz	001	DT	25	TON
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
COL # 7833774 TRK # PW18 TAG # LV-4188 N.C.

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
George L. Taylor		10	24	06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
X Robert D Pollard JR.	X R. Pollard JR.	10	26	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year
Rick Wms	Rick Wms	10	26	06

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TRANSPORTER #2

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC6170022580 | Manifest Doc. No. 06511 | 2. Page 1 of

3. Generator's Name and Mailing Address
COMMANDING GENERAL
AC site EMD m/c Case
PSC Box 20047 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
CAMP LEJEUNE
T.T. II

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name
ESJ Enterprises

8. US EPA ID Number

A. Transporter's Phone
910 567 6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH CONTAMINATED SOIL - NON HAZ	0.01	DT	24.07	TONS
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CDL# 8943084 TRK# SR33 TAG# PT 63805 NC

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: George L. Taylor | Signature | Month 10 Day 26 Year 06

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID A WILLIAMS JR | Signature | Month | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: RICK WMS | Signature | Month 10 Day 26 Year 06

GENERATOR — TRANSPORTER — FACILITY

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ORIGINAL – RETURN TO GENERATOR

Please print or type.
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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
NC6170025 80.	06509	

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC Site EMD m/c case
PSC Box 20004 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune
T.T. II

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name
ES&J Enterprises

8. US EPA ID Number

A. Transporter's Phone
910 567 6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil - NON Haz	001	DT	2600	Tons
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CDL# 29922945 TRK# #02 Tag# IA 93036

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
George L Taylor		10	26	06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
X SERGIO HERNANDEZ		10	26	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
		10	26	06

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
NC6170025580	06508	

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
A/C Site EMD m/c Case
PSC Box 20041 Camp Lejeune, NC

4. Site: Physical Location
CAMP LEJEUNE
T.T. II

5. Owner of Contamination:
Name:
Address:
Phone #:

6. Generator's Phone (910) 451-1482

7. Transporter 1 Company Name	8. US EPA ID Number	A. Transporter's Phone
E S & J Enterprises		910 567-6138

9. Designated Facility Name and Site Address	10. US EPA ID Number	B. Facility's Phone
E S & J ENTERPRISES 1555 Holland Rd. Autryville, NC 28318	S.R.0.6.0.0.0.3.5.	(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil - NON Haz	001	DT	25.00	TON
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CDL#3753391 TRK# 160 Tag#1H9409N

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
George L Taylor	George L Taylor	10	26	06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
X Johnny Tanner	X Johnny Tanner	10	26	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Ricky Ward	Ricky Ward	10	26	06

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NC.6170002580
Manifest Doc. No.: 0.6.5.0.6
2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
A/C site EMD M/C Case
PSC Box 2004 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
CAMP LEJEUNE
T.T. A

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name: ES & J ENTERPRISES
8. US EPA ID Number:
A. Transporter's Phone: 910 567-6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number: S.R.0.6.0.0.0.3.5.

B. Facility's Phone: (910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil - NON Haz	001	DT	22.84	TON
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CDL # 3412310 TRK # MAC 38 LK 3020

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: Jon A. Myers, II
Signature:
Month: 10 Day: 26 Year: 06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month: 10 Day: 26 Year: 06

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month: Day: Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: D Fancett
Signature:
Month: 10 Day: 26 Year: 06

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
NC 4170002580	065.05	

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC-Site EMD M/C Case
PSC Box 8004 Camp Lejeune
6. Generator's Phone (910)

4. Site: Physical Location
Camp Lejeune
T. T II

5. Owner of Contamination:
Name:
Address:
Phone #:

TRANSPORTER

7. Transporter 1 Company Name
E & J Enterprises

8. US EPA ID Number

A. Transporter's Phone
(910) 567-6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil - Non Haz	0.01	DT	22.43	TONS
c.				
d.				

D. Additional Descriptions for Materials Listed Above
CDL # 8943094
South River # 12 KSR33
NCPT 63805 Tag #

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jon A. Myers JR	Jon A. Myers JR	10	26	06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
X David A Williams JR	X David A. Williams J			

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
J Faircloth	J Faircloth	10	26	06

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
NC.G.1.7.0.0.2.5.8.0.	06.5.04	

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC-Site Env Mgmt m/c Case
PSC 4504 Box 9004 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune
T. T II

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name
E S & J Enterprises

8. US EPA ID Number

A. Transporter's Phone
(910) 567-6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil - Non-Haz	0.0.1	D.T	23.61	TON
c.				
d.				

D. Additional Descriptions for Materials Listed Above
CDL # 2749420 TRK # 45 Tag # LP 7436

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jon A. Mayes, II	Jon A. Mayes II	10	26	06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Stan Cone	Stan Cone	10	26	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
D Faircloth	D Faircloth	10	26	06

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
NC6170025800	06501	

GENERATOR

3. Generator's Name and Mailing Address	4. Site: Physical Location	5. Owner of Contamination: Name: Address: Phone #:
Commanding General A/C Site EMD M/C Case PSC Box 20004 Camp Lejeune 6. Generator's Phone (910) 451 1482	Camp Lejeune T. T. II	

7. Transporter 1 Company Name	8. US EPA ID Number	A. Transporter's Phone
E.S & J Enterprises		910 567-6138

9. Designated Facility Name and Site Address	10. US EPA ID Number	B. Facility's Phone
E S & J ENTERPRISES 1555 Holland Rd. Autryville, NC 28318	S.R.0.6.0.0.0.3.5.	(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil - NON Haz	001	DT	24.04	Tons
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

CDL# 7767058 TRK# 280 Tag# LWZ852NC

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
George L Taylor		10	26	06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
X Emanuel Boone	X	10	26	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Rick Winn	Rick Winn	10	26	06

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC6170025 80 | Manifest Doc. No. 06500 | 2. Page 1 of

3. Generator's Name and Mailing Address
Commanding General
AC-Site EMD m/c Case
PSC Box Camp Lejeune NC

6. Generator's Phone (910)

4. Site: Physical Location
Camp Lejeune
T T II

5. Owner of Contamination:
Name:
Address:

Phone #:

7. Transporter 1 Company Name
E&S J Enterprises

8. US EPA ID Number

A. Transporter's Phone (910) 567-6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil - Non Haz	001	DT	26.34	TON
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CDL # 3753391 TRK # 160 Tag # YA-94097

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Creory L Taylor		10	26	06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
X Johnny Tanner	X	10	26	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Rick Wms.		10	26	06

GENERATOR / TRANSPORTER / FACILITY

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC.6.1.7.0.0.2.5.8.0. | Manifest Doc. No. 06499 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC-Site EPPD m/c Case
PSC Box 2004 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune
T. T II

5. Owner of Contamination:
Name:
Address:
Phone #:

TRANSPORTER

7. Transporter 1 Company Name | 8. US EPA ID Number | A. Transporter's Phone (910) 567-6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone
(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminate Soil - NON Haz	001	DT	24	Tons
c.				
d.				

D. Additional Descriptions for Materials Listed Above
(1) # 382032 1 N.E TRK # 163 Tag # YZ-96055 N.E.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: EUGENE JONES | Signature | Month 10 Day 25 Year 06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mack Culbreth | Signature | Month 10 Day 25 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Rick Wms. | Signature | Month 10 Day 25 Year 06

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC.6170.02580 | Manifest Doc. No. 06.798 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Commanding Gen
AC-Site Env m/c Case
PSC. Box 2004 Complejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name | 8. US EPA ID Number | A. Transporter's Phone (910) 567-6198

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone (910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminate SOIL - Non Haz	001		22.24	Tons
c.				
d.				

D. Additional Descriptions for Materials Listed Above
CDL# 3753391 TR# 160 Tag# HA-94097

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: EUGENE JONES | Signature | Month 10 Day 25 Year 06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
X Printed/Typed Name: Johnny Tanner | Signature X Johnny Tanner | Month 10 Day 25 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: RICK WARD | Signature | Month 10 Day 25 Year 06

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ORIGINAL – RETURN TO GENERATOR

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC 6170025 80 | Manifest Doc. No. 06497 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC-Site ENVD m/c Case
PSC Box 2004 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune
T. T II

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name

8. US EPA ID Number

A. Transporter's Phone (910) 567-6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone (910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. Tptt Contaminated Soil-Non Haz	001		27.00	TON
c.				
d.				

D. Additional Descriptions for Materials Listed Above
CDL# 7767058 TRK# 206 Tag# LW2852, NC

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: EUGENE JONES | Signature | Month 10 | Day 25 | Year 06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: EMANUEL Boone | Signature | Month 10 | Day 25 | Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: DFARLOW | Signature | Month 10 | Day 25 | Year 06

Form Number 1 - KELLEY ASSOCIATES, Inc., Newark, NY
(800) 227-8863 Printed in the United States

ORIGINAL – RETURN TO GENERATOR

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC6170025 80 | Manifest Doc. No. 06495 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC-Site ENVD m/c Case
PSC Box 2004 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune
T. T II

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name

8. US EPA ID Number

A. Transporter's Phone (910) 567-6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone (910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminate Soil Non-Haz	001	DT	24	Tons
c.				
d.				

D. Additional Descriptions for Materials Listed Above
CDL# 3753391 TRK# 160 Tag# YA94097

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jon A. Myers, II		10	25	06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
X Johnny Tanner	X Johnny Tanner	10	25	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Rick Winn	Rick Winn	10	25	06

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ORIGINAL – RETURN TO GENERATOR

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC 6170025 80 | Manifest Doc. No. 06494 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC- Site Exp. S m/c Case
PSC Box 2004
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune
T. T II

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name

8. US EPA ID Number

A. Transporter's Phone (910) 567-6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number S.R.0.6.0.0.0.3.5.

B. Facility's Phone (910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminate SOIL - NON Haz			26.80	TON
c.				
d.				

D. Additional Descriptions for Materials Listed Above
CD # 382032 | TRK # 163 | Tag # YA-96055 N.C.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jon A. Myers, JR	Jon A. Myers	10	25	06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Mack Culbreth	Mack Culbreth	10	25	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Ricky Sims	Ricky Sims	10	27	06

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U.S. DOT 49 CFR 263.20 and 263.22 Printed in the United States

ORIGINAL – RETURN TO GENERATOR

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NC6.1.7.0.0.2580 | Manifest Doc. No.: 0.6.4.93 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC-Site ESMD m/c Case
PSC Box 20004 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune
T. T II

5. Owner of Contamination:
Name:
Address:
Phone #:

TRANSPORTER

7. Transporter 1 Company Name

8. US EPA ID Number

A. Transporter's Phone (910) 567-4138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number
S.R.0.6.0.0.0.3.5.

B. Facility's Phone (910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TP# Contaminate Soil Non Haz	001	DT	2.6.18	TON
c.				
d.				

D. Additional Descriptions for Materials Listed Above
CDL# 7167058 TRK# 206 Tag# LW2852NC

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Jon A. Meyers, II		10	25	06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
EMANUEL Boone		10	25	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Rick Wms.		10	25	06

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USA 1-800-327-6868 Printed in the United States

ORIGINAL – RETURN TO GENERATOR

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NC6170025800 | Manifest Doc. No. 06492 | 2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Commanding General
AC-Site ENRD. m/c Case
PSC Box 2004 Camp Lejeune
6. Generator's Phone (910) 451-1482

4. Site: Physical Location
Camp Lejeune
T. T II

5. Owner of Contamination:
Name:
Address:
Phone #:

7. Transporter 1 Company Name

8. US EPA ID Number

A. Transporter's Phone (910) 567-6138

9. Designated Facility Name and Site Address
E S & J ENTERPRISES
1555 Holland Rd.
Autryville, NC 28318

10. US EPA ID Number S.R.0.6.0.0.0.3.5.

B. Facility's Phone (910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. Tph Contaminated Soil Non Haz	001	DT	24	TON
c.				
d.				

D. Additional Descriptions for Materials Listed Above
CDL# 3753391 TRK# 160 Tag# YA94097

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: George L. Taylor | Signature: George L. Taylor | Month: 10 | Day: 24 | Year: 06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Johnny Tanner | Signature: Johnny Tanner | Month: 10 | Day: 24 | Year: 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Rick Sims | Signature: Rick Sims | Month: 10 | Day: 24 | Year: 06

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ORIGINAL – RETURN TO GENERATOR

Please Print or Type
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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
	[redacted]	

GENERATOR

3. Generator's Name and Mailing Address	4. Site: Physical Location	5. Owner of Contamination: Name: Address:
6. Generator's Phone ( )		Phone #:

7. Transporter 1 Company Name	8. US EPA ID Number	A. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	B. Facility's Phone
E S & J ENTERPRISES 1555 Holland Rd. Autryville, NC 28318	S.R.0.6.0.0.0.3.5.	(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Petroleum Contaminated Soil Non Haz	001	CY	24.00	TONS.
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above
CDL #3420321 TRK #16 I.D. # 96055 N.C.	

15. Special Handling Instructions and Additional Information

TRANSPORTER

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
George L. Taylor	George L. Taylor	10	24	06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Mack Culbreth	Mack Culbreth	10	24	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Rick Winn	Rick Winn	10	24	06

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NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of
NCL170025580	0649D	

GENERATOR

3. Generator's Name and Mailing Address	4. Site: Physical Location	5. Owner of Contamination:
Commanding General Ac-Site EMD m/c Case PSC Box 20004 Camp Lejeune 6. Generator's Phone (910) 451-1482	Camp Lejeune T.T II	Name: Address: Phone #:

7. Transporter 1 Company Name	8. US EPA ID Number	A. Transporter's Phone
		910-567-6138

9. Designated Facility Name and Site Address	10. US EPA ID Number	B. Facility's Phone
E S & J ENTERPRISES 1555 Holland Rd. Autryville, NC 28318	S.R.0.6.0.0.0.3.5.	(910) 567-6138

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. petroleum contaminated soil				LBS.
b. TPH Contaminated Soil Non Haz	001	DT	24	Tons
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above
CDL#7767058 TRK#206 Tag#LW2852	

15. Special Handling Instructions and Additional Information

TRANSPORTER

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
George L. Taylor	George L. Taylor	10	24	06

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
X Emanuel Boone	X	10	24	06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Shelby Royal	Shelby Royal	10	24	06

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ORIGINAL – RETURN TO GENERATOR

APPENDIX C

PROJECT CHAIN-OF-CUSTODY RECORDS

COC Number:
109972-TT-100306

F44197

Shaw
Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390 | Receiving LAB:Accutest

Project Name	Project Location		
CAMP LEJEUNE -TT	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
109972	Mark Martin		
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Analysis Desired: DRO/GRO 3550/5030/8015

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	DRO/GRO	3550/5030/8015
1	TT-001	10/3/06	14:30		X	TT Tank 1 Center	2	X	
2	TT-002	10/3/06	14:33		X	TT Tank 1 North Wall	2	X	
3	TT-003	10/3/06	14:40		X	TT Tank 1 East Wall	2	X	
4	TT-004	10/3/06	14:45		X	TT Tank 1 South Wall	2	X	
5	TT-005	10/3/06	14:50		X	TT Tank 1 West Wall	2	X	
6	TT Trip Blank	10/3/06			X	Trip Blank	2	X	GRO only
7									
8									
9									
10									

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1-6		FedEx 8580 9991 2435	10/3/06	16:00	24 Hour TAT
2		FK		10/4/06	9:00	
3						

A.O

F44197: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44197 CLIENT: Shaw PROJECT: Camp Lejeune

DATE/TIME RECEIVED: 10/4/06 1:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.0

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

AIRBILL NUMBERS: 8580 8991 2435

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

SAMPLE INFORMATION

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

MISC. INFORMATION

NUMBER OF ENCORES ? 5

NUMBER OF 5035 FIELD KITS ? 8

NUMBER OR LAB FILTERED METALS ? 8

SUMMARY OF COMMENTS: Sample 2 time on COC 1433 ~~1435~~ on Samp

TECHNICIAN SIGNATURE/DATE 10/4/06 TECHNICIAN SIGNATURE/DATE

ASBD03/27/06

3.1 C

F44197: Chain of Custody
Page 2 of 2

COC Number:
109972-TT-101306

F44498

Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

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

Receiving LAB:Accutest

Project Name	Project Location		
CAMP LEJEUNE -TT	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
109972	Mark Martin	223102	
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: 8260	8270	MADEP EPH	MADEP VPH
1	TT-012	10/13/06	12:00		X	TT Tank 1 North Wall	8	X	X	X	X
2	TT-013	10/13/06	14:30		X	TT Tank 1 East Wall	8	X	X	X	X
3	TT-014	10/13/06	14:40		X	TT Tank 1 South Wall	8	X	X	X	X
4	TT-015	10/13/06	12:15		X	TT Tank 1 West Wall	8	X	X	X	X
5	TT-Trip Blank	10/13/06	—		X	Trip Blank	2	X			
6											
7											
8											
9											
10											

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1-5		Fed EX 8574 8740 2615	10/13/06	16:00	5 Day TAT
2				10/14/06	9:00	
3						

F44498: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories
F44498

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44498 CLIENT: Shaw PROJECT: Camp Lejeune

DATE/TIME RECEIVED: 10/4/06 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 4.2

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

AIRBILL NUMBERS: 857487402523

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

SAMPLE INFORMATION

- [ ] SAMPLE LABELS 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)

MISC. INFORMATION

NUMBER OF ENCORES ? 4

NUMBER OF 5035 FIELD KITS ? 2

NUMBER OR LAB FILTERED METALS ? 2

SUMMARY OF COMMENTS: Samples 1-4 only 2 Encores for 8260's
~~# of~~ containers on COC for sample 4 (8) & received (4)

TECHNICIAN SIGNATURE/DATE: 10/4/06 TECHNICIAN SIGNATURE/DATE: ASBD 10/03/06

3.1 3

F44498: Chain of Custody
Page 2 of 2

COC Number:
109972-TT-100506

F44260

Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

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

Receiving LAB:Accutest

Project Name	Project Location		
CAMP LEJEUNE -TT	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
109972	Mark Martin		
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Analysis Desired

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	DRO/GRO 3550/5030/8015	TCLP Metals
1	TT-012	10/5/06	17:00		X	Stockpile	2	X	X
2									
3									
4									
5									
6									
7									
8									
9									
10									

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1		FedEx 8574 8740 2626	10/5/06	16:00	7 DAY TAT
2				10/6/06	9:00	
3						

1.6

F44260: Chain of Custody
Page 1 of 2

ACCUTEST Laboratories
F44260

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44260 CLIENT: Shaw PROJECT: Camp Lejeune

DATE/TIME RECEIVED: 10/6/06 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.6

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

AIRBILL NUMBERS: 855748740 2626

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

SAMPLE INFORMATION

- [ ] SAMPLE LABELS 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)

MISC. INFORMATION

NUMBER OF ENCORES ? 2

NUMBER OF 5035 FIELD KITS ? 2

NUMBER OR LAB FILTERED METALS ? 2

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] 10/6/06 TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

3.1

F44260: Chain of Custody
Page 2 of 2

COC Number:
109972-TT-110106

Shaw Environmental & Infrastructure, Inc.

P44960

CHAIN-OF-CUSTODY RECORD

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

Receiving LAB:Accutest

Project Name	Project Location		
CAMP LEJEUNE -TT	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
109972	Mark Martin		
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	602 with Xyenes	625	MADEP EPH	MADEP VPH	DRO/GRO	Analysis Desired
1	TT-TW-001	11/2/06	15:00		X	Tank 1 Temp Well	10	X	X	X	X	X	
2	TT-TW-002	11/2/06	16:30		X	Tank 2 Temp Well	10	X	X	X	X	X	
3	TT Trip Blank	11/2/06			X	Trip Blank	2	X					
4													
5													
6													
7													
8													
9													
10													

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1 -- 3		UPS 1Z71V 098 13 9462 5264	11/2/06	~~16:00~~ 1830
2		UPS		11/3/06	1030
3					

Remarks

7 Day TAT

625 Plus 10 Largest Non-Target Peaks Identified

2.0

CHAIN OF CUSTODY

ACCUTEST Laboratories

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

G383-492

ACCUTEST JOB #:

ACCUTEST QUOTE #:

9109

SGS ENVIRONMENTAL SERVICES, INC.

CLIENT INFORMATION

NAME: Accutest Southeast

ADDRESS:

CITY, STATE, ZIP:

SEND REPORT TO:
PHONE #:

FACILITY INFORMATION

PROJECT NAME: F44960

LOCATION:

PROJECT NO.:

FAX #:

ANALYTICAL INFORMATION

EPH

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	EPH
	F44960-1	11/2/06	15:00		W	1				X		X
	-2	↓	16:30		W	1				X		X

DATA TURNAROUND INFORMATION

- ☐ STANDARD
- ☐ 48 HOUR RUSH
- ☐ 24 HOUR EMERGENCY
- ☑ OTHER 7 Day

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☑ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

Paradigm Analytical

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY: SAMPLER	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	11/3/06 1630	1.	2.		2.
3.	11/9/06 1000	3. Amy DiDonato	4.		4.
5.		5.	SEAL # NA	PRESERVE WHERE APPLICABLE ☐	ON ICE ☑ TEMPERATURE 3.6 C

APPENDIX D

LABORATORY ANALYTICAL REPORTS

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

10/09/06

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT-49

109972

Accutest Job Number: F44197

Sampling Date: 10/03/06

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: **26**

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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.

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Accutest Laboratories

Sample Summary

Shaw E & I, Inc.

Job No: F44197

Camp Lejeune-TT-49
Project No: 109972

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F44197-1	10/03/06	14:30	SO	10/04/06	SO	Soil	TT-001
F44197-2	10/03/06	14:33	SO	10/04/06	SO	Soil	TT-002
F44197-3	10/03/06	14:40	SO	10/04/06	SO	Soil	TT-003
F44197-4	10/03/06	14:45	SO	10/04/06	SO	Soil	TT-004
F44197-5	10/03/06	14:50	SO	10/04/06	SO	Soil	TT-005

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-001		
Lab Sample ID:	F44197-1	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 SW846 5030A	Percent Solids:	85.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD071801.D	1	10/05/06	MM	10/04/06 16:40	n/a	GCD2970
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.71 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	120	70	35	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		62-135%
98-08-8	aaa-Trifluorotoluene	88%		65-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-001		
Lab Sample ID:	F44197-1	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	85.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ34593.D	25	10/06/06	AC	10/05/06	OP18069	GIJ1489
Run #2							

	Initial Weight	Final Volume
Run #1	31.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1350	230	140	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		57-115%

(a) Outside control limits due to dilution.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-002		
Lab Sample ID:	F44197-2	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 SW846 5030A	Percent Solids:	83.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD071802.D	1	10/05/06	MM	10/04/06 16:40	n/a	GCD2970
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.33 g	5.0 ml	25.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	57.4	31	16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		62-135%
98-08-8	aaa-Trifluorotoluene	88%		65-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-002		
Lab Sample ID:	F44197-2	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	83.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ34594.D	20	10/06/06	AC	10/05/06	OP18069	GIJ1489
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	692	190	120	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		57-115%

(a) Outside control limits due to dilution.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-003		
Lab Sample ID:	F44197-3	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 SW846 5030A	Percent Solids:	85.3
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD071803.D	1	10/05/06	MM	10/04/06 16:40	n/a	GCD2970
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.79 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	182	70	35	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		62-135%
98-08-8	aaa-Trifluorotoluene	89%		65-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-003		
Lab Sample ID:	F44197-3	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	85.3
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ34595.D	50	10/06/06	AC	10/05/06	OP18069	GIJ1489
Run #2							

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	2220	470	280	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		57-115%

(a) Outside control limits due to dilution.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-004		
Lab Sample ID:	F44197-4	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 SW846 5030A	Percent Solids:	84.4
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD071806.D	1	10/05/06	MM	10/04/06 16:40	n/a	GCD2970
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.93 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	17.2	5.9	3.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		62-135%
98-08-8	aaa-Trifluorotoluene	87%		65-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-004		
Lab Sample ID:	F44197-4	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	84.4
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ34596.D	40	10/06/06	AC	10/05/06	OP18069	GIJ1489
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1530	390	230	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		57-115%

(a) Outside control limits due to dilution.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-005		
Lab Sample ID:	F44197-5	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 SW846 5030A	Percent Solids:	82.6
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD071805.D	1	10/05/06	MM	10/04/06 16:40	n/a	GCD2970
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.32 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	170	67	34	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		62-135%
98-08-8	aaa-Trifluorotoluene	87%		65-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-005		
Lab Sample ID:	F44197-5	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	82.6
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	IJ34597.D	25	10/06/06	AC	10/05/06	OP18069	GIJ1489
Run #2							

	Initial Weight	Final Volume
Run #1	31.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1120	240	140	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [b]		57-115%

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Outside control limits due to dilution.

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC Number:
109972-TT-100306

F44197

Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bld 626 - 910-451-2390 | Receiving LAB:Accutest

Project Name	Project Location		
CAMP LEJEUNE -TT	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
109972	Mark Martin		
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Analysis Desired: DRO/GRO 3550/5030/8015

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	DRO/GRO 3550/5030/8015
1	TT-001	10/3/06	14:30		X	TT Tank 1 Center	2	X
2	TT-002	10/3/06	14:33		X	TT Tank 1 North Wall	2	X
3	TT-003	10/3/06	14:40		X	TT Tank 1 East Wall	2	X
4	TT-004	10/3/06	14:45		X	TT Tank 1 South Wall	2	X
5	TT-005	10/3/06	14:50		X	TT Tank 1 West Wall	2	X
6	TT Trip Blank	10/3/06			X	Trip Blank	2	X GRO only
7								
8								
9								
10								

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1-6		FedEx 8580 9991 2435	10/3/06	16:00	24 Hour TAT
2		FK		10/4/06	9:00	
3						

1.0

F44197: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44197 CLIENT: Shaw PROJECT: Camp Lejeune

DATE/TIME RECEIVED: 10/4/06 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.0

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

AIRBILL NUMBERS: 8580 8991 2435

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

SAMPLE INFORMATION

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

MISC. INFORMATION

NUMBER OF ENCORES ? 5

NUMBER OF 5035 FIELD KITS ? 8

NUMBER OR LAB FILTERED METALS ? 8

SUMMARY OF COMMENTS: Sample 2 time on COC 1433 & on Samp 1435

TECHNICIAN SIGNATURE/DATE 10/4/06 TECHNICIAN SIGNATURE/DATE

ASBD03/27/06

3.1 3

F44197: Chain of Custody
Page 2 of 2

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44197
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD2970-MB	CD071800.D	1	10/05/06	MM	n/a	n/a	GCD2970

The QC reported here applies to the following samples: Method: SW846 8015

F44197-1, F44197-2, F44197-3, F44197-4, F44197-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	84%	62-135%
98-08-8	aaa-Trifluorotoluene	88%	65-118%

Blank Spike Summary

Job Number: F44197
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD2970-BS	CD071799.D	1	10/05/06	MM	n/a	n/a	GCD2970

The QC reported here applies to the following samples: Method: SW846 8015

F44197-1, F44197-2, F44197-3, F44197-4, F44197-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	21.6	108	66-122

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	100%	62-135%
98-08-8	aaa-Trifluorotoluene	103%	65-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44197
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44197-5MS	CD071807.D	1	10/05/06	MM	n/a	n/a	GCD2970
F44197-5MSD	CD071808.D	1	10/05/06	MM	n/a	n/a	GCD2970
F44197-5	CD071805.D	1	10/05/06	MM	n/a	n/a	GCD2970

The QC reported here applies to the following samples: Method: SW846 8015

F44197-1, F44197-2, F44197-3, F44197-4, F44197-5

CAS No.	Compound	F44197-5 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	170		270	407	88	432	97	6	37-142/17

CAS No.	Surrogate Recoveries	MS	MSD	F44197-5	Limits
460-00-4	4-Bromofluorobenzene	104%	121%	92%	62-135%
98-08-8	aaa-Trifluorotoluene	101%	102%	87%	65-118%

GC Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44197
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18069-MB	IJ34579.D	1	10/05/06	AC	10/05/06	OP18069	GIJ1488

The QC reported here applies to the following samples: Method: SW846 8015 M

F44197-1, F44197-2, F44197-3, F44197-4, F44197-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	5.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	88%	57-115%

Method Blank Summary

Job Number: F44197
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18069-MB	IJ34592.D	1	10/06/06	AC	10/05/06	OP18069	GIJ1489

The QC reported here applies to the following samples: Method: SW846 8015 M

F44197-1, F44197-2, F44197-3, F44197-4, F44197-5

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	5.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	88%	57-115%

Blank Spike Summary

Job Number: F44197
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18069-BS	IJ34578.D	1	10/05/06	AC	10/05/06	OP18069	GIJ1488

The QC reported here applies to the following samples: Method: SW846 8015 M

F44197-1, F44197-2, F44197-3, F44197-4, F44197-5

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	29.4	88	62-114

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	93%	57-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44197
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18069-MS	IJ34598.D	50	10/06/06	AC	10/05/06	OP18069	GIJ1489
OP18069-MSD	IJ34599.D	100	10/06/06	AC	10/05/06	OP18069	GIJ1489
F44197-5 [a]	IJ34597.D	25	10/06/06	AC	10/05/06	OP18069	GIJ1489

The QC reported here applies to the following samples: Method: SW846 8015 M

F44197-1, F44197-2, F44197-3, F44197-4, F44197-5

CAS No.	Compound	F44197-5 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	1120		39.4	2500	3499* [b]	3920	6938* [b]	44*	31-136/36

CAS No.	Surrogate Recoveries	MS	MSD	F44197-5	Limits
84-15-1	o-Terphenyl	0%* [c]	0%* [c]	0%* [c]	57-115%

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Outside control limits due to dilution.

C&S/L Small Project Estimating / Pricing Tool: Worksheet 5 - Project Summary

Internal Use Only

Shaw The Shaw Group Inc.

Customer / Project Name	CSXT
Job Site Location	Waycross Sept 8, 06 Release Remedial
Project Manager Name	Terence Whitt
Contract Type	T&M
Rate Schedule / Opportunity	Strategic
ShawVision Sector	OC - Commercial Cnsltng & Engr
ShawVision SubSector / Region	CRG - Gulf/Southeast Region
ShawVision Ops Ctr / District	GGE - Georgia District
Responsible Office	005 - Alpharetta, GA
Client Sector	Major Retail
Practice	Remediation

Summary Financial Data:

	Total	BREAKDOWN BY TASK: Installation 1	Trench 2	Liner 3	Delineation 4	Reporting 5	Flushing 6	0 7	0 8	0 9	0 10
Revenue											
Labor	47,221	18,289	4,393	3,123	4,417	4,399	12,600	0	0	0	0
ODC's	28,053	15,744	1,075	6,880	806	0	3,548	0	0	0	0
Total Revenue	75,274	34,033	5,468	10,003	5,223	4,399	16,148	0	0	0	0
Direct Margin											
Labor	24,696	9,584	2,154	1,667	2,315	2,181	6,795	0	0	0	0
ODC's	2,603	1,744	75	480	56	0	248	0	0	0	0
Total Direct Margin	27,298	11,327	2,229	2,147	2,371	2,181	7,043	0	0	0	0
Direct Margin %											
Labor	52.3%	52.4%	49.0%	53.4%	52.4%	49.6%	53.9%	0.0%	0.0%	0.0%	0.0%
ODC's	9.3%	11.1%	7.0%	7.0%	7.0%	0.0%	7.0%	0.0%	0.0%	0.0%	0.0%
Total Direct Margin %	36.3%	33.3%	40.8%	21.5%	45.4%	49.6%	43.6%	0.0%	0.0%	0.0%	0.0%
Project Margin											
Labor	6,809	2,671	376	511	646	420	2,186	0	0	0	0
ODC's	1,566	1,101	41	260	30	0	134	0	0	0	0
Total Project Margin	8,375	3,772	416	770	677	420	2,320	0	0	0	0
Project Margin %											
Labor	14.4%	14.6%	8.6%	16.3%	14.6%	9.5%	17.3%	0.0%	0.0%	0.0%	0.0%
ODC's	5.6%	7.0%	3.8%	3.8%	3.8%	0.0%	3.8%	0.0%	0.0%	0.0%	0.0%
Total Project Margin %	11.1%	11.1%	7.6%	7.7%	13.0%	9.5%	14.4%	0.0%	0.0%	0.0%	0.0%

Other Analysis:

% Labor	65%
% ODC's	35%
Total	100%
Target DM %	35.2%
Actual DM %	36.3%
Variance % (B or -W)	1.0%
Variance $ (B or -W)	1,199
Target Multiplier (Input from below)	2.63
Actual Multiplier	2.71
Variance (B or -W)	0.08

Target Multipliers & ODC Markups:
Standard Commercial Client = 3.0, 15.0%
National / Volume Client = 2.75, 10.0%
Strategic Client = 2.63, 7.5%

Notes:

Approval Authority:

		For Fixed Price	For Cost Reimbursable
Project / Program Manager	Terence A. Whitt	Required	Required
(1) Regional Field Svcs Manager		$0 - $100K	$0 - $250K
(2) District Manager		$0 - $500K	$0 - $2.5M
(3) Central Operations VP		$0 - $500K	$0 - $2.5M
Region VP / Bus Plan Manager		$500K - $2.5M	$2.5M - $25.0M
Business Line Leader (Horst)		$2.5M - $15.0M	$25.0M - $100.0M
Controller		Recommended For: Projects > $500K	

(1) For Field Service work only
(2) Or Office Lead, by District Manager delegation only

Sample Summary

Shaw E & I, Inc.

Job No: F44197

Camp Lejeune-TT-49
Project No: 109972

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F44197-1	10/03/06	14:30	SO	10/04/06	SO	Soil	TT-001
F44197-2	10/03/06	14:33	SO	10/04/06	SO	Soil	TT-002
F44197-3	10/03/06	14:40	SO	10/04/06	SO	Soil	TT-003
F44197-4	10/03/06	14:45	SO	10/04/06	SO	Soil	TT-004
F44197-5	10/03/06	14:50	SO	10/04/06	SO	Soil	TT-005

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Report of Analysis

Client Sample ID:	TT-001		
Lab Sample ID:	F44197-1	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 SW846 5030A	Percent Solids:	85.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD071801.D	1	10/05/06	MM	10/04/06 16:40	n/a	GCD2970
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.71 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	120	70	35	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		62-135%
98-08-8	aaa-Trifluorotoluene	88%		65-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates 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:	TT-001		
Lab Sample ID:	F44197-1	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	85.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ34593.D	25	10/06/06	AC	10/05/06	OP18069	GIJ1489
Run #2							

	Initial Weight	Final Volume
Run #1	31.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1350	230	140	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		57-115%

(a) Outside control limits due to dilution.

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

Report of Analysis

Client Sample ID:	TT-002		
Lab Sample ID:	F44197-2	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 SW846 5030A	Percent Solids:	83.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD071802.D	1	10/05/06	MM	10/04/06 16:40	n/a	GCD2970
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.33 g	5.0 ml	25.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	57.4	31	16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		62-135%
98-08-8	aaa-Trifluorotoluene	88%		65-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates 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:	TT-002		
Lab Sample ID:	F44197-2	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	83.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ34594.D	20	10/06/06	AC	10/05/06	OP18069	GIJ1489
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	692	190	120	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		57-115%

(a) Outside control limits due to dilution.

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

Report of Analysis

Client Sample ID:	TT-003		
Lab Sample ID:	F44197-3	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 SW846 5030A	Percent Solids:	85.3
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD071803.D	1	10/05/06	MM	10/04/06 16:40	n/a	GCD2970
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.79 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	182	70	35	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		62-135%
98-08-8	aaa-Trifluorotoluene	89%		65-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates 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:	TT-003		
Lab Sample ID:	F44197-3	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	85.3
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ34595.D	50	10/06/06	AC	10/05/06	OP18069	GIJ1489
Run #2							

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	2220	470	280	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		57-115%

(a) Outside control limits due to dilution.

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

Report of Analysis

Client Sample ID:	TT-004		
Lab Sample ID:	F44197-4	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 SW846 5030A	Percent Solids:	84.4
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD071806.D	1	10/05/06	MM	10/04/06 16:40	n/a	GCD2970
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.93 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	17.2	5.9	3.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	111%		62-135%
98-08-8	aaa-Trifluorotoluene	87%		65-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates 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:	TT-004		
Lab Sample ID:	F44197-4	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	84.4
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ34596.D	40	10/06/06	AC	10/05/06	OP18069	GIJ1489
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1530	390	230	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		57-115%

(a) Outside control limits due to dilution.

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

Report of Analysis

Client Sample ID:	TT-005		
Lab Sample ID:	F44197-5	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 SW846 5030A	Percent Solids:	82.6
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD071805.D	1	10/05/06	MM	10/04/06 16:40	n/a	GCD2970
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.32 g	5.0 ml	10.0 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	170	67	34	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		62-135%
98-08-8	aaa-Trifluorotoluene	87%		65-118%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates 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:	TT-005		
Lab Sample ID:	F44197-5	Date Sampled:	10/03/06
Matrix:	SO - Soil	Date Received:	10/04/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	82.6
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	IJ34597.D	25	10/06/06	AC	10/05/06	OP18069	GIJ1489
Run #2							

	Initial Weight	Final Volume
Run #1	31.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1120	240	140	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [b]		57-115%

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Outside control limits due to dilution.

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

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44197 CLIENT: Shaw PROJECT: Camp Lejeune

DATE/TIME RECEIVED: 10/4/06 7:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.0

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

AIRBILL NUMBERS: 8580 8991 2435

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

SAMPLE INFORMATION

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

MISC. INFORMATION

NUMBER OF ENCORES ? 5

NUMBER OF 5035 FIELD KITS ? 0

NUMBER OR LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS: Sample 2 time on COC 1433 & on Samp 1435

TECHNICIAN SIGNATURE/DATE 10/4/06 TECHNICIAN SIGNATURE/DATE

ASBD03/27/06

F44197: Chain of Custody
Page 2 of 2

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT-49

109972

Accutest Job Number: F44498

Sampling Date: 10/13/06

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 77

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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

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Sample Summary

Shaw E & I, Inc.

Job No: F44498

Camp Lejeune-TT-49
Project No: 109972

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
F44498-1	10/13/06	12:00 MM	10/14/06	SO	Soil	TT-012
F44498-1A	10/13/06	12:00 MM	10/14/06	SO	Soil	TT-012
F44498-2	10/13/06	14:30 MM	10/14/06	SO	Soil	TT-013
F44498-2A	10/13/06	14:30 MM	10/14/06	SO	Soil	TT-013
F44498-3	10/13/06	14:40 MM	10/14/06	SO	Soil	TT-014
F44498-3A	10/13/06	14:40 MM	10/14/06	SO	Soil	TT-014
F44498-4	10/13/06	12:15 MM	10/14/06	SO	Soil	TT-015
F44498-4A	10/13/06	12:15 MM	10/14/06	SO	Soil	TT-015
F44498-5	10/13/06	00:00 MM	10/14/06	AQ	Trip Blank Soil	TT-TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-012		
Lab Sample ID:	F44498-1	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8260B SW846 5035	Percent Solids:	80.3
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028874.D	1	10/16/06	WJ	10/14/06 12:50	n/a	VK1285
Run #2							

	Initial Weight
Run #1	5.85 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	53	27	ug/kg	
71-43-2	Benzene	ND	5.3	2.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	2.1	ug/kg	
75-25-2	Bromoform	ND	5.3	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	2.1	ug/kg	
75-00-3	Chloroethane	ND	5.3	3.2	ug/kg	
67-66-3	Chloroform	ND	5.3	2.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.3	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	2.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	2.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	2.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	2.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	2.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	2.1	ug/kg	
591-78-6	2-Hexanone	ND	27	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	11	ug/kg	
74-83-9	Methyl bromide	ND	5.3	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.3	2.1	ug/kg	
75-09-2	Methylene chloride	ND	11	5.3	ug/kg	
78-93-3	Methyl ethyl ketone	ND	27	11	ug/kg	
100-42-5	Styrene	ND	5.3	2.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	2.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	2.1	ug/kg	
108-88-3	Toluene	ND	5.3	2.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	2.1	ug/kg	

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-012		
Lab Sample ID:	F44498-1	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8260B SW846 5035	Percent Solids:	80.3
Project:	Camp Lejeune-TT-49		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	5.3	2.1	ug/kg	
1330-20-7	Xylene (total)	ND	16	5.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		78-123%
2037-26-5	Toluene-D8	104%		71-137%
460-00-4	4-Bromofluorobenzene	92%		61-157%
17060-07-0	1,2-Dichloroethane-D4	92%		74-125%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
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Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-012		
Lab Sample ID:	F44498-1	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.3
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R05342.D	1	10/18/06	NJ	10/16/06	OP18174	SR255
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	1000	420	ug/kg	
95-57-8	2-Chlorophenol	ND	210	42	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	42	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	42	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	420	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	420	83	ug/kg	
95-48-7	2-Methylphenol	ND	210	42	ug/kg	
	3&4-Methylphenol	ND	210	42	ug/kg	
88-75-5	2-Nitrophenol	ND	210	42	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	420	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	420	ug/kg	
108-95-2	Phenol	ND	210	42	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	42	ug/kg	
83-32-9	Acenaphthene	ND	210	42	ug/kg	
208-96-8	Acenaphthylene	ND	210	42	ug/kg	
120-12-7	Anthracene	ND	210	42	ug/kg	
56-55-3	Benzo(a)anthracene	ND	210	42	ug/kg	
50-32-8	Benzo(a)pyrene	ND	210	42	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	210	42	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	210	83	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	210	42	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	210	42	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	420	100	ug/kg	
100-51-6	Benzyl Alcohol	ND	210	42	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	42	ug/kg	
106-47-8	4-Chloroaniline	ND	420	170	ug/kg	
86-74-8	Carbazole	ND	210	42	ug/kg	
218-01-9	Chrysene	ND	210	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	210	42	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	83	ug/kg	

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-012		
Lab Sample ID:	F44498-1	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.3
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	42	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	42	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	210	42	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	42	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	42	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	83	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	83	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	420	210	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	210	83	ug/kg	
132-64-9	Dibenzofuran	ND	210	42	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	420	100	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	420	210	ug/kg	
84-66-2	Diethyl phthalate	ND	420	100	ug/kg	
131-11-3	Dimethyl phthalate	ND	420	100	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	420	210	ug/kg	
206-44-0	Fluoranthene	ND	210	42	ug/kg	
86-73-7	Fluorene	ND	210	42	ug/kg	
118-74-1	Hexachlorobenzene	ND	210	42	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	83	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	83	ug/kg	
67-72-1	Hexachloroethane	ND	210	83	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	210	83	ug/kg	
78-59-1	Isophorone	ND	210	42	ug/kg	
91-57-6	2-Methylnaphthalene	ND	210	42	ug/kg	
88-74-4	2-Nitroaniline	ND	420	100	ug/kg	
99-09-2	3-Nitroaniline	ND	420	100	ug/kg	
100-01-6	4-Nitroaniline	ND	420	150	ug/kg	
91-20-3	Naphthalene	ND	210	42	ug/kg	
98-95-3	Nitrobenzene	ND	210	42	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	210	83	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	42	ug/kg	
85-01-8	Phenanthrene	ND	210	42	ug/kg	
129-00-0	Pyrene	ND	210	83	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	42	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%		45-114%
4165-62-2	Phenol-d5	65%		44-124%
118-79-6	2,4,6-Tribromophenol	59%		50-128%

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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-012		
Lab Sample ID:	F44498-1	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.3
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		41-123%
321-60-8	2-Fluorobiphenyl	59%		46-122%
1718-51-0	Terphenyl-d14	62%		45-135%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-012		
Lab Sample ID:	F44498-1	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	80.3
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF22001.D	1	10/23/06	AA	10/16/06	OP18172	GZF1025
Run #2							

	Initial Weight	Final Volume
Run #1	31.4 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	7900	7900	ug/kg	
	C9-C18 Aliphatics	ND	7900	7900	ug/kg	
	C19-C36 Aliphatics	ND	7900	7900	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	54%		40-140%
580-13-2	2-Bromonaphthalene	74%		40-140%
84-15-1	o-Terphenyl	67%		40-140%
321-60-8	2-Fluorobiphenyl	79%		40-140%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-012		
Lab Sample ID:	F44498-1A	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	MADEP VPH	Percent Solids:	80.3
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV024419.D	1	10/18/06	MM	n/a	n/a	GUV1405
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.35 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	5500	2900	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	4000	2200	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1500	730	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	80%		70-130%
460-00-4	BFB	78%		70-130%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-013		
Lab Sample ID:	F44498-2	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8260B SW846 5035	Percent Solids:	81.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028875.D	1	10/16/06	WJ	10/14/06 12:50	n/a	VK1285
Run #2							

	Initial Weight
Run #1	5.73 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	53	27	ug/kg	
71-43-2	Benzene	ND	5.3	2.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	2.1	ug/kg	
75-25-2	Bromoform	ND	5.3	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	2.1	ug/kg	
75-00-3	Chloroethane	ND	5.3	3.2	ug/kg	
67-66-3	Chloroform	ND	5.3	2.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.3	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	2.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	2.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	2.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	2.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	2.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	2.1	ug/kg	
591-78-6	2-Hexanone	ND	27	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	11	ug/kg	
74-83-9	Methyl bromide	ND	5.3	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.3	2.1	ug/kg	
75-09-2	Methylene chloride	ND	11	5.3	ug/kg	
78-93-3	Methyl ethyl ketone	ND	27	11	ug/kg	
100-42-5	Styrene	ND	5.3	2.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	2.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	2.1	ug/kg	
108-88-3	Toluene	ND	5.3	2.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	2.1	ug/kg	

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-013		
Lab Sample ID:	F44498-2	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8260B SW846 5035	Percent Solids:	81.8
Project:	Camp Lejeune-TT-49		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	5.3	2.1	ug/kg	
1330-20-7	Xylene (total)	ND	16	5.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		78-123%
2037-26-5	Toluene-D8	104%		71-137%
460-00-4	4-Bromofluorobenzene	89%		61-157%
17060-07-0	1,2-Dichloroethane-D4	90%		74-125%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-013		
Lab Sample ID:	F44498-2	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R05345.D	1	10/18/06	NJ	10/16/06	OP18174	SR255
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	1000	400	ug/kg	
95-57-8	2-Chlorophenol	ND	200	40	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	40	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	40	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	40	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	400	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	400	80	ug/kg	
95-48-7	2-Methylphenol	ND	200	40	ug/kg	
	3&4-Methylphenol	ND	200	40	ug/kg	
88-75-5	2-Nitrophenol	ND	200	40	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	400	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	400	ug/kg	
108-95-2	Phenol	ND	200	40	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	40	ug/kg	
83-32-9	Acenaphthene	ND	200	40	ug/kg	
208-96-8	Acenaphthylene	ND	200	40	ug/kg	
120-12-7	Anthracene	ND	200	40	ug/kg	
56-55-3	Benzo(a)anthracene	ND	200	40	ug/kg	
50-32-8	Benzo(a)pyrene	ND	200	40	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	200	40	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	200	80	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	200	40	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	200	40	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	400	100	ug/kg	
100-51-6	Benzyl Alcohol	ND	200	40	ug/kg	
91-58-7	2-Chloronaphthalene	ND	200	40	ug/kg	
106-47-8	4-Chloroaniline	ND	400	160	ug/kg	
86-74-8	Carbazole	ND	200	40	ug/kg	
218-01-9	Chrysene	ND	200	40	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	200	40	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	200	80	ug/kg	

ND = Not detected MDL - Method Detection Limit
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Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-013		
Lab Sample ID:	F44498-2	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.8
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	40	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	40	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	200	40	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	200	40	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	200	40	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	200	80	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	200	80	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	400	200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	200	80	ug/kg	
132-64-9	Dibenzofuran	ND	200	40	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	400	100	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	400	200	ug/kg	
84-66-2	Diethyl phthalate	ND	400	100	ug/kg	
131-11-3	Dimethyl phthalate	ND	400	100	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	400	200	ug/kg	
206-44-0	Fluoranthene	ND	200	40	ug/kg	
86-73-7	Fluorene	ND	200	40	ug/kg	
118-74-1	Hexachlorobenzene	ND	200	40	ug/kg	
87-68-3	Hexachlorobutadiene	ND	200	80	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200	80	ug/kg	
67-72-1	Hexachloroethane	ND	200	80	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	200	80	ug/kg	
78-59-1	Isophorone	ND	200	40	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	40	ug/kg	
88-74-4	2-Nitroaniline	ND	400	100	ug/kg	
99-09-2	3-Nitroaniline	ND	400	100	ug/kg	
100-01-6	4-Nitroaniline	ND	400	140	ug/kg	
91-20-3	Naphthalene	ND	200	40	ug/kg	
98-95-3	Nitrobenzene	ND	200	40	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	200	80	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	40	ug/kg	
85-01-8	Phenanthrene	ND	200	40	ug/kg	
129-00-0	Pyrene	ND	200	80	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	200	40	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		45-114%
4165-62-2	Phenol-d5	67%		44-124%
118-79-6	2,4,6-Tribromophenol	66%		50-128%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-013		
Lab Sample ID:	F44498-2	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.8
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	64%		41-123%
321-60-8	2-Fluorobiphenyl	64%		46-122%
1718-51-0	Terphenyl-d14	68%		45-135%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-013		
Lab Sample ID:	F44498-2	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	81.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF22003.D	1	10/23/06	AA	10/16/06	OP18172	GZF1025
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	8000	8000	ug/kg	
	C9-C18 Aliphatics	ND	8000	8000	ug/kg	
	C19-C36 Aliphatics	ND	8000	8000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	57%		40-140%
580-13-2	2-Bromonaphthalene	92%		40-140%
84-15-1	o-Terphenyl	79%		40-140%
321-60-8	2-Fluorobiphenyl	86%		40-140%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-013		
Lab Sample ID:	F44498-2A	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	MADEP VPH	Percent Solids:	81.8
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV024420.D	1	10/18/06	MM	n/a	n/a	GUV1405
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.90 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4000	2100	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2900	1600	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	530	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	71%		70-130%
460-00-4	BFB	70%		70-130%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-014		
Lab Sample ID:	F44498-3	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8260B SW846 5035	Percent Solids:	78.9
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028876.D	1	10/16/06	WJ	10/14/06 12:50	n/a	VK1285
Run #2							

	Initial Weight
Run #1	5.70 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	56	28	ug/kg	
71-43-2	Benzene	ND	5.6	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	2.2	ug/kg	
75-25-2	Bromoform	ND	5.6	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.6	3.3	ug/kg	
67-66-3	Chloroform	ND	5.6	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.6	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.6	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.6	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.6	2.2	ug/kg	
591-78-6	2-Hexanone	ND	28	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	28	11	ug/kg	
74-83-9	Methyl bromide	ND	5.6	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.6	2.2	ug/kg	
75-09-2	Methylene chloride	ND	11	5.6	ug/kg	
78-93-3	Methyl ethyl ketone	ND	28	11	ug/kg	
100-42-5	Styrene	ND	5.6	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.6	2.2	ug/kg	
108-88-3	Toluene	ND	5.6	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.6	2.2	ug/kg	

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-014		
Lab Sample ID:	F44498-3	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8260B SW846 5035	Percent Solids:	78.9
Project:	Camp Lejeune-TT-49		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	5.6	2.2	ug/kg	
1330-20-7	Xylene (total)	ND	17	5.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		78-123%
2037-26-5	Toluene-D8	106%		71-137%
460-00-4	4-Bromofluorobenzene	89%		61-157%
17060-07-0	1,2-Dichloroethane-D4	92%		74-125%

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Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-014		
Lab Sample ID:	F44498-3	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.9
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R05346.D	1	10/18/06	NJ	10/16/06	OP18174	SR255
Run #2							

	Initial Weight	Final Volume
Run #1	31.1 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	1000	410	ug/kg	
95-57-8	2-Chlorophenol	ND	200	41	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	41	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	41	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	41	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	410	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	410	82	ug/kg	
95-48-7	2-Methylphenol	ND	200	41	ug/kg	
	3&4-Methylphenol	ND	200	41	ug/kg	
88-75-5	2-Nitrophenol	ND	200	41	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	410	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	410	ug/kg	
108-95-2	Phenol	ND	200	41	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	41	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	41	ug/kg	
83-32-9	Acenaphthene	ND	200	41	ug/kg	
208-96-8	Acenaphthylene	ND	200	41	ug/kg	
120-12-7	Anthracene	ND	200	41	ug/kg	
56-55-3	Benzo(a)anthracene	ND	200	41	ug/kg	
50-32-8	Benzo(a)pyrene	ND	200	41	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	200	41	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	200	82	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	200	41	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	200	41	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	410	100	ug/kg	
100-51-6	Benzyl Alcohol	ND	200	41	ug/kg	
91-58-7	2-Chloronaphthalene	ND	200	41	ug/kg	
106-47-8	4-Chloroaniline	ND	410	160	ug/kg	
86-74-8	Carbazole	ND	200	41	ug/kg	
218-01-9	Chrysene	ND	200	41	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	200	41	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	200	82	ug/kg	

ND = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-014		
Lab Sample ID:	F44498-3	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.9
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	41	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	41	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	200	41	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	200	41	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	200	41	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	200	82	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	200	82	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	410	200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	200	82	ug/kg	
132-64-9	Dibenzofuran	ND	200	41	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	410	100	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	410	200	ug/kg	
84-66-2	Diethyl phthalate	ND	410	100	ug/kg	
131-11-3	Dimethyl phthalate	ND	410	100	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	410	200	ug/kg	
206-44-0	Fluoranthene	ND	200	41	ug/kg	
86-73-7	Fluorene	ND	200	41	ug/kg	
118-74-1	Hexachlorobenzene	ND	200	41	ug/kg	
87-68-3	Hexachlorobutadiene	ND	200	82	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200	82	ug/kg	
67-72-1	Hexachloroethane	ND	200	82	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	200	82	ug/kg	
78-59-1	Isophorone	ND	200	41	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	41	ug/kg	
88-74-4	2-Nitroaniline	ND	410	100	ug/kg	
99-09-2	3-Nitroaniline	ND	410	100	ug/kg	
100-01-6	4-Nitroaniline	ND	410	140	ug/kg	
91-20-3	Naphthalene	ND	200	41	ug/kg	
98-95-3	Nitrobenzene	ND	200	41	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	200	82	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	41	ug/kg	
85-01-8	Phenanthrene	ND	200	41	ug/kg	
129-00-0	Pyrene	ND	200	82	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	200	41	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	72%		45-114%
4165-62-2	Phenol-d5	73%		44-124%
118-79-6	2,4,6-Tribromophenol	69%		50-128%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-014		
Lab Sample ID:	F44498-3	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.9
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		41-123%
321-60-8	2-Fluorobiphenyl	68%		46-122%
1718-51-0	Terphenyl-d14	74%		45-135%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-014		
Lab Sample ID:	F44498-3	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	78.9
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF22034.D	1	10/25/06	ME	10/16/06	OP18172	GZF1026
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	8300	8300	ug/kg	
	C9-C18 Aliphatics	ND	8300	8300	ug/kg	
	C19-C36 Aliphatics	ND	8300	8300	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	48%		40-140%
580-13-2	2-Bromonaphthalene	119%		40-140%
84-15-1	o-Terphenyl	96%		40-140%
321-60-8	2-Fluorobiphenyl	119%		40-140%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-014		
Lab Sample ID:	F44498-3A	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	MADEP VPH	Percent Solids:	78.9
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV024421.D	1	10/18/06	MM	n/a	n/a	GUV1405
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.74 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4200	2300	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3100	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	560	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	75%		70-130%
460-00-4	BFB	74%		70-130%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-015		
Lab Sample ID:	F44498-4	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8260B SW846 5035	Percent Solids:	79.2
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028877.D	1	10/16/06	WJ	10/14/06 12:50	n/a	VK1285
Run #2							

	Initial Weight
Run #1	5.75 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	55	27	ug/kg	
71-43-2	Benzene	ND	5.5	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	2.2	ug/kg	
75-25-2	Bromoform	ND	5.5	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.5	3.3	ug/kg	
67-66-3	Chloroform	ND	5.5	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.5	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.5	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.5	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.5	2.2	ug/kg	
591-78-6	2-Hexanone	ND	27	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	11	ug/kg	
74-83-9	Methyl bromide	ND	5.5	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.5	2.2	ug/kg	
75-09-2	Methylene chloride	ND	11	5.5	ug/kg	
78-93-3	Methyl ethyl ketone	ND	27	11	ug/kg	
100-42-5	Styrene	ND	5.5	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.5	2.2	ug/kg	
108-88-3	Toluene	ND	5.5	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.5	2.2	ug/kg	

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-015		
Lab Sample ID:	F44498-4	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8260B SW846 5035	Percent Solids:	79.2
Project:	Camp Lejeune-TT-49		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	5.5	2.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	5.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		78-123%
2037-26-5	Toluene-D8	99%		71-137%
460-00-4	4-Bromofluorobenzene	85%		61-157%
17060-07-0	1,2-Dichloroethane-D4	90%		74-125%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-015		
Lab Sample ID:	F44498-4	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	79.2
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R05347.D	1	10/18/06	NJ	10/16/06	OP18174	SR255
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	1000	420	ug/kg	
95-57-8	2-Chlorophenol	ND	210	42	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	42	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	42	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	420	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	420	83	ug/kg	
95-48-7	2-Methylphenol	ND	210	42	ug/kg	
	3&4-Methylphenol	ND	210	42	ug/kg	
88-75-5	2-Nitrophenol	ND	210	42	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	420	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	420	ug/kg	
108-95-2	Phenol	ND	210	42	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	42	ug/kg	
83-32-9	Acenaphthene	ND	210	42	ug/kg	
208-96-8	Acenaphthylene	ND	210	42	ug/kg	
120-12-7	Anthracene	ND	210	42	ug/kg	
56-55-3	Benzo(a)anthracene	ND	210	42	ug/kg	
50-32-8	Benzo(a)pyrene	ND	210	42	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	210	42	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	210	83	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	210	42	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	210	42	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	420	100	ug/kg	
100-51-6	Benzyl Alcohol	ND	210	42	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	42	ug/kg	
106-47-8	4-Chloroaniline	ND	420	170	ug/kg	
86-74-8	Carbazole	ND	210	42	ug/kg	
218-01-9	Chrysene	ND	210	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	210	42	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	83	ug/kg	

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-015		
Lab Sample ID:	F44498-4	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	79.2
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	42	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	42	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	210	42	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	42	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	42	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	83	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	83	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	420	210	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	210	83	ug/kg	
132-64-9	Dibenzofuran	ND	210	42	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	420	100	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	420	210	ug/kg	
84-66-2	Diethyl phthalate	ND	420	100	ug/kg	
131-11-3	Dimethyl phthalate	ND	420	100	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	420	210	ug/kg	
206-44-0	Fluoranthene	ND	210	42	ug/kg	
86-73-7	Fluorene	ND	210	42	ug/kg	
118-74-1	Hexachlorobenzene	ND	210	42	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	83	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	83	ug/kg	
67-72-1	Hexachloroethane	ND	210	83	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	210	83	ug/kg	
78-59-1	Isophorone	ND	210	42	ug/kg	
91-57-6	2-Methylnaphthalene	ND	210	42	ug/kg	
88-74-4	2-Nitroaniline	ND	420	100	ug/kg	
99-09-2	3-Nitroaniline	ND	420	100	ug/kg	
100-01-6	4-Nitroaniline	ND	420	150	ug/kg	
91-20-3	Naphthalene	ND	210	42	ug/kg	
98-95-3	Nitrobenzene	ND	210	42	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	210	83	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	42	ug/kg	
85-01-8	Phenanthrene	ND	210	42	ug/kg	
129-00-0	Pyrene	ND	210	83	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	42	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		45-114%
4165-62-2	Phenol-d5	63%		44-124%
118-79-6	2,4,6-Tribromophenol	60%		50-128%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-015		
Lab Sample ID:	F44498-4	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	79.2
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		41-123%
321-60-8	2-Fluorobiphenyl	58%		46-122%
1718-51-0	Terphenyl-d14	64%		45-135%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-015		
Lab Sample ID:	F44498-4	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	79.2
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF22005.D	1	10/23/06	AA	10/16/06	OP18172	GZF1025
Run #2							

	Initial Weight	Final Volume
Run #1	31.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	8000	8000	ug/kg	
	C9-C18 Aliphatics	ND	8000	8000	ug/kg	
	C19-C36 Aliphatics	ND	8000	8000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	59%		40-140%
580-13-2	2-Bromonaphthalene	86%		40-140%
84-15-1	o-Terphenyl	82%		40-140%
321-60-8	2-Fluorobiphenyl	91%		40-140%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-015		
Lab Sample ID:	F44498-4A	Date Sampled:	10/13/06
Matrix:	SO - Soil	Date Received:	10/14/06
Method:	MADEP VPH	Percent Solids:	79.2
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV024422.D	1	10/18/06	MM	n/a	n/a	GUV1405
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.53 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	5300	2800	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3900	2100	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1400	710	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	74%		70-130%
460-00-4	BFB	73%		70-130%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TRIP BLANK		
Lab Sample ID:	F44498-5	Date Sampled:	10/13/06
Matrix:	AQ - Trip Blank Soil	Date Received:	10/14/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0043893.D	1	10/18/06	KW	n/a	n/a	VC1774
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TRIP BLANK		
Lab Sample ID:	F44498-5	Date Sampled:	10/13/06
Matrix:	AQ - Trip Blank Soil	Date Received:	10/14/06
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

VOA TCL List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		86-115%
17060-07-0	1,2-Dichloroethane-D4	97%		73-126%
2037-26-5	Toluene-D8	101%		86-112%
460-00-4	4-Bromofluorobenzene	108%		83-119%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC Number:
109972-TT-101306

F44498

Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

3.1 C3

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

Receiving LAB:Accutest

Project Name	Project Location		
CAMP LEJEUNE -TT	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
109972	Mark Martin	223102	
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	Analysis Desired: 8260	8270	MADEP EPH	MADEP VPH
1	TT-012	10/13/06	12:00		X	TT Tank 1 North Wall	8	X	X	X	X
2	TT-013	10/13/06	14:30		X	TT Tank 1 East Wall	8	X	X	X	X
3	TT-014	10/13/06	14:40		X	TT Tank 1 South Wall	8	X	X	X	X
4	TT-015	10/13/06	12:15		X	TT Tank 1 West Wall	8	X	X	X	X
5	TT-Trip Blank	10/13/06	—		X	Trip Blank	2	X			
6											
7											
8											
9											
10											

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1-5		Fed EX 8574 8740 2615	10/13/06	16:00	5 Day TAT
2		FedEx	ACCUTEST	10/14/06	9:00	
3						

Apon 9.2

F44498: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44498 CLIENT: Shaw PROJECT: Camp Lejeune

DATE/TIME RECEIVED: 10/4/06 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 4.2

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

AIRBILL NUMBERS: 8574 8740 2523

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

SAMPLE INFORMATION

- [ ] SAMPLE LABELS 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)

MISC. INFORMATION

NUMBER OF ENCORES ? 4

NUMBER OF 5035 FIELD KITS ? 2

NUMBER OR LAB FILTERED METALS ? 2

SUMMARY OF COMMENTS: Samples 1-4 only 2 Encores for 8260's
# of containers on COC for samples 1-4 (8) & received (4)

TECHNICIAN SIGNATURE/DATE: 10/4/06 TECHNICIAN SIGNATURE/DATE: ASBD 10/03/06

3.1 3

F44498: 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

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1285-MB	K028863.D	1	10/16/06	WJ	n/a	n/a	VK1285

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

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
71-43-2	Benzene	ND	5.0	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	3.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
100-42-5	Styrene	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	
1330-20-7	Xylene (total)	ND	15	5.0	ug/kg	

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1285-MB	K028863.D	1	10/16/06	WJ	n/a	n/a	VK1285

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

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	93%	78-123%
2037-26-5	Toluene-D8	101%	71-137%
460-00-4	4-Bromofluorobenzene	86%	61-157%
17060-07-0	1,2-Dichloroethane-D4	95%	74-125%

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC1774-MB	C0043892.D	1	10/18/06	KW	n/a	n/a	VC1774

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

F44498-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.40	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC1774-MB	C0043892.D	1	10/18/06	KW	n/a	n/a	VC1774

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

F44498-5

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	86-115%
17060-07-0	1,2-Dichloroethane-D4	101%	73-126%
2037-26-5	Toluene-D8	104%	86-112%
460-00-4	4-Bromofluorobenzene	110%	83-119%

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1285-BS	K028860.D	1	10/16/06	WJ	n/a	n/a	VK1285

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

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	225	90	51-136
71-43-2	Benzene	50	51.2	102	74-124
75-27-4	Bromodichloromethane	50	48.8	98	74-124
75-25-2	Bromoform	50	54.4	109	79-127
108-90-7	Chlorobenzene	50	54.1	108	78-117
75-00-3	Chloroethane	50	61.5	123	63-147
67-66-3	Chloroform	50	51.5	103	75-121
75-15-0	Carbon disulfide	50	36.7	73	59-148
56-23-5	Carbon tetrachloride	50	52.8	106	67-131
75-34-3	1,1-Dichloroethane	50	50.2	100	71-118
75-35-4	1,1-Dichloroethylene	50	44.0	88	64-126
107-06-2	1,2-Dichloroethane	50	51.1	102	72-120
78-87-5	1,2-Dichloropropane	50	51.1	102	74-126
124-48-1	Dibromochloromethane	50	52.4	105	78-120
156-59-2	cis-1,2-Dichloroethylene	50	48.6	97	75-124
10061-01-5	cis-1,3-Dichloropropene	50	54.0	108	72-120
156-60-5	trans-1,2-Dichloroethylene	50	48.9	98	70-122
10061-02-6	trans-1,3-Dichloropropene	50	57.7	115	75-118
100-41-4	Ethylbenzene	50	53.7	107	77-120
591-78-6	2-Hexanone	250	245	98	68-136
108-10-1	4-Methyl-2-pentanone	250	243	97	69-136
74-83-9	Methyl bromide	50	53.1	106	52-156
74-87-3	Methyl chloride	50	69.0	138	63-142
75-09-2	Methylene chloride	50	39.9	80	51-142
78-93-3	Methyl ethyl ketone	250	232	93	63-138
100-42-5	Styrene	50	53.9	108	74-120
71-55-6	1,1,1-Trichloroethane	50	51.4	103	70-131
79-34-5	1,1,2,2-Tetrachloroethane	50	51.8	104	76-121
79-00-5	1,1,2-Trichloroethane	50	53.2	106	77-118
127-18-4	Tetrachloroethylene	50	58.2	116	68-127
108-88-3	Toluene	50	54.1	108	74-118
79-01-6	Trichloroethylene	50	53.1	106	72-122
75-01-4	Vinyl chloride	50	48.0	96	64-144
1330-20-7	Xylene (total)	150	164	109	78-122

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1285-BS	K028860.D	1	10/16/06	WJ	n/a	n/a	VK1285

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

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	78-123%
2037-26-5	Toluene-D8	102%	71-137%
460-00-4	4-Bromofluorobenzene	94%	61-157%
17060-07-0	1,2-Dichloroethane-D4	105%	74-125%

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC1774-BS	C0043891.D	1	10/18/06	KW	n/a	n/a	VC1774

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

F44498-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	112	90	44-142
71-43-2	Benzene	25	25.6	102	80-120
75-27-4	Bromodichloromethane	25	25.3	101	75-120
75-25-2	Bromoform	25	24.1	96	60-129
108-90-7	Chlorobenzene	25	26.4	106	82-112
75-00-3	Chloroethane	25	31.6	126	67-148
67-66-3	Chloroform	25	26.6	106	78-118
75-15-0	Carbon disulfide	25	26.4	106	65-147
56-23-5	Carbon tetrachloride	25	27.8	111	69-137
75-34-3	1,1-Dichloroethane	25	26.9	108	75-117
75-35-4	1,1-Dichloroethylene	25	26.6	106	67-134
107-06-2	1,2-Dichloroethane	25	25.9	104	68-121
78-87-5	1,2-Dichloropropane	25	27.4	110	78-122
124-48-1	Dibromochloromethane	25	24.8	99	68-118
156-59-2	cis-1,2-Dichloroethylene	25	25.1	100	81-120
10061-01-5	cis-1,3-Dichloropropene	25	26.5	106	73-115
156-60-5	trans-1,2-Dichloroethylene	25	27.1	108	74-125
10061-02-6	trans-1,3-Dichloropropene	25	27.0	108	69-115
100-41-4	Ethylbenzene	25	27.9	112	82-115
591-78-6	2-Hexanone	125	108	86	60-125
108-10-1	4-Methyl-2-pentanone	125	110	88	61-128
74-83-9	Methyl bromide	25	25.5	102	60-165
74-87-3	Methyl chloride	25	30.7	123	58-152
75-09-2	Methylene chloride	25	24.0	96	66-125
78-93-3	Methyl ethyl ketone	125	108	86	58-127
100-42-5	Styrene	25	27.9	112	58-125
71-55-6	1,1,1-Trichloroethane	25	27.0	108	78-132
79-34-5	1,1,2,2-Tetrachloroethane	25	23.3	93	67-119
79-00-5	1,1,2-Trichloroethane	25	24.8	99	74-115
127-18-4	Tetrachloroethylene	25	27.8	111	75-126
108-88-3	Toluene	25	27.2	109	81-114
79-01-6	Trichloroethylene	25	27.5	110	80-115
75-01-4	Vinyl chloride	25	24.0	96	70-151
1330-20-7	Xylene (total)	75	85.9	115	81-118

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC1774-BS	C0043891.D	1	10/18/06	KW	n/a	n/a	VC1774

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

F44498-5

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	86-115%
17060-07-0	1,2-Dichloroethane-D4	104%	73-126%
2037-26-5	Toluene-D8	103%	86-112%
460-00-4	4-Bromofluorobenzene	103%	83-119%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44436-4MS	K028869.D	1	10/16/06	WJ	n/a	n/a	VK1285
F44436-4MSD	K028870.D	1	10/16/06	WJ	n/a	n/a	VK1285
F44436-4	K028868.D	1	10/16/06	WJ	n/a	n/a	VK1285

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

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	F44436-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	33.1	J	284	220	66	269	82	20	14-140/33
71-43-2	Benzene	11.5		56.8	52.0	71	56.9	79	9	63-135/23
75-27-4	Bromodichloromethane	ND		56.8	50.9	90	52.1	91	2	63-126/23
75-25-2	Bromoform	ND		56.8	54.7	96	59.1	103	8	54-109/24
108-90-7	Chlorobenzene	ND		56.8	52.1	92	55.7	97	7	64-130/24
75-00-3	Chloroethane	ND		56.8	61.0	107	61.7	108	1	53-172/28
67-66-3	Chloroform	ND		56.8	51.6	91	54.9	96	6	68-131/24
75-15-0	Carbon disulfide	ND		56.8	36.2	64	36.6	64	1	47-165/29
56-23-5	Carbon tetrachloride	ND		56.8	50.6	89	53.2	93	5	64-148/24
75-34-3	1,1-Dichloroethane	2.6	J	56.8	50.6	85	53.4	89	5	64-130/25
75-35-4	1,1-Dichloroethylene	4.7		56.8	44.2	70	46.9	74	6	55-149/28
107-06-2	1,2-Dichloroethane	ND		56.8	51.9	91	57.4	100	10	60-114/22
78-87-5	1,2-Dichloropropane	ND		56.8	51.7	91	56.8	99	9	65-128/23
124-48-1	Dibromochloromethane	ND		56.8	52.2	92	55.5	97	6	60-119/23
156-59-2	cis-1,2-Dichloroethylene	ND		56.8	47.8	84	51.3	89	7	66-132/24
10061-01-5	cis-1,3-Dichloropropene	ND		56.8	52.7	93	55.1	96	4	57-118/25
156-60-5	trans-1,2-Dichloroethylene	ND		56.8	49.7	88	49.2	86	1	63-137/27
10061-02-6	trans-1,3-Dichloropropene	ND		56.8	55.6	98	59.3	103	6	58-115/25
100-41-4	Ethylbenzene	ND		56.8	51.9	91	55.0	96	6	63-142/25
591-78-6	2-Hexanone	ND		284	237	83	283	99	18	35-109/34
108-10-1	4-Methyl-2-pentanone	ND		284	240	85	279	97	15	44-99/32
74-83-9	Methyl bromide	ND		56.8	56.5	100	56.1	98	1	38-188/27
74-87-3	Methyl chloride	ND		56.8	69.7	123	68.2	119	2	57-160/29
75-09-2	Methylene chloride	ND		56.8	43.8	77	44.4	77	1	40-183/34
78-93-3	Methyl ethyl ketone	ND		284	225	79	266	93	17	27-112/32
100-42-5	Styrene	ND		56.8	49.5	87	52.0	91	5	54-130/26
71-55-6	1,1,1-Trichloroethane	ND		56.8	51.3	90	52.8	92	3	70-149/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		56.8	50.8	89	55.7	97	9	45-121/33
79-00-5	1,1,2-Trichloroethane	ND		56.8	53.1	94	58.5	102	10	60-114/25
127-18-4	Tetrachloroethylene	ND		56.8	54.5	96	56.0	98	3	54-154/27
108-88-3	Toluene	ND		56.8	52.9	93	55.0	96	4	62-142/29
79-01-6	Trichloroethylene	ND		56.8	49.8	88	53.3	93	7	59-143/25
75-01-4	Vinyl chloride	ND		56.8	50.5	89	51.3	89	2	64-165/27
1330-20-7	Xylene (total)	ND		170	157	92	165	96	5	64-142/24

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44436-4MS	K028869.D	1	10/16/06	WJ	n/a	n/a	VK1285
F44436-4MSD	K028870.D	1	10/16/06	WJ	n/a	n/a	VK1285
F44436-4	K028868.D	1	10/16/06	WJ	n/a	n/a	VK1285

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

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Surrogate Recoveries	MS	MSD	F44436-4	Limits
1868-53-7	Dibromofluoromethane	97%	101%	98%	78-123%
2037-26-5	Toluene-D8	102%	102%	105%	71-137%
460-00-4	4-Bromofluorobenzene	92%	92%	89%	61-157%
17060-07-0	1,2-Dichloroethane-D4	101%	102%	93%	74-125%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44424-3MS	C0043900.D	1	10/18/06	KW	n/a	n/a	VC1774
F44424-3MSD	C0043901.D	1	10/18/06	KW	n/a	n/a	VC1774
F44424-3	C0043895.D	1	10/18/06	KW	n/a	n/a	VC1774

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

F44498-5

CAS No.	Compound	F44424-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	103	82	109	87	6	45-127/15
71-43-2	Benzene	ND		25	24.3	97	24.5	98	1	72-125/7
75-27-4	Bromodichloromethane	ND		25	22.6	90	23.1	92	2	72-120/8
75-25-2	Bromoform	ND		25	22.3	89	22.9	92	3	55-127/11
108-90-7	Chlorobenzene	ND		25	25.1	100	24.8	99	1	79-113/7
75-00-3	Chloroethane	ND		25	28.0	112	28.2	113	1	56-164/14
67-66-3	Chloroform	ND		25	24.1	96	24.8	99	3	75-120/8
75-15-0	Carbon disulfide	ND		25	25.4	102	25.7	103	1	60-151/12
56-23-5	Carbon tetrachloride	ND		25	24.0	96	24.9	100	4	56-145/12
75-34-3	1,1-Dichloroethane	ND		25	24.8	99	25.1	100	1	70-122/10
75-35-4	1,1-Dichloroethylene	ND		25	23.4	94	24.1	96	3	61-137/15
107-06-2	1,2-Dichloroethane	ND		25	22.5	90	23.5	94	4	64-124/7
78-87-5	1,2-Dichloropropane	ND		25	25.0	100	25.1	100	0	74-123/8
124-48-1	Dibromochloromethane	ND		25	22.9	92	23.5	94	3	63-119/9
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.9	96	23.8	95	0	74-125/9
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.5	98	24.8	99	1	65-112/10
156-60-5	trans-1,2-Dichloroethylene	ND		25	24.1	96	24.4	98	1	70-127/11
10061-02-6	trans-1,3-Dichloropropene	ND		25	23.8	95	24.3	97	2	59-116/11
100-41-4	Ethylbenzene	ND		25	25.9	104	25.7	103	1	73-119/8
591-78-6	2-Hexanone	ND		125	104	83	110	88	6	54-131/11
108-10-1	4-Methyl-2-pentanone	ND		125	109	87	114	91	4	57-136/11
74-83-9	Methyl bromide	ND		25	23.0	92	23.2	93	1	52-172/16
74-87-3	Methyl chloride	ND		25	28.7	115	29.1	116	1	53-155/19
75-09-2	Methylene chloride	ND		25	21.0	84	21.9	88	4	61-129/11
78-93-3	Methyl ethyl ketone	ND		125	111	89	116	93	4	51-128/10
100-42-5	Styrene	ND		25	25.5	102	25.6	102	0	64-124/11
71-55-6	1,1,1-Trichloroethane	ND		25	23.7	95	24.5	98	3	72-133/8
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	23.3	93	23.8	95	2	64-120/10
79-00-5	1,1,2-Trichloroethane	ND		25	23.5	94	23.7	95	1	72-116/9
127-18-4	Tetrachloroethylene	ND		25	25.5	102	26.0	104	2	70-126/9
108-88-3	Toluene	ND		25	25.0	100	25.2	101	1	67-123/8
79-01-6	Trichloroethylene	ND		25	25.5	102	25.5	102	0	73-117/10
75-01-4	Vinyl chloride	ND		25	21.1	84	21.9	88	4	63-161/18
1330-20-7	Xylene (total)	ND		75	78.2	104	78.2	104	0	73-122/7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44424-3MS	C0043900.D	1	10/18/06	KW	n/a	n/a	VC1774
F44424-3MSD	C0043901.D	1	10/18/06	KW	n/a	n/a	VC1774
F44424-3	C0043895.D	1	10/18/06	KW	n/a	n/a	VC1774

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

F44498-5

CAS No.	Surrogate Recoveries	MS	MSD	F44424-3	Limits
1868-53-7	Dibromofluoromethane	100%	100%	100%	86-115%
17060-07-0	1,2-Dichloroethane-D4	96%	99%	94%	73-126%
2037-26-5	Toluene-D8	99%	100%	101%	86-112%
460-00-4	4-Bromofluorobenzene	98%	98%	105%	83-119%

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-MB	R05341.D	1	10/18/06	NJ	10/16/06	OP18174	SR255

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	330	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	330	130	ug/kg	
86-74-8	Carbazole	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-MB	R05341.D	1	10/18/06	NJ	10/16/06	OP18174	SR255

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
88-74-4	2-Nitroaniline	ND	330	83	ug/kg	
99-09-2	3-Nitroaniline	ND	330	83	ug/kg	
100-01-6	4-Nitroaniline	ND	330	120	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	78%	45-114%
4165-62-2	Phenol-d5	78%	44-124%

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-MB	R05341.D	1	10/18/06	NJ	10/16/06	OP18174	SR255

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	70%	50-128%
4165-60-0	Nitrobenzene-d5	72%	41-123%
321-60-8	2-Fluorobiphenyl	72%	46-122%
1718-51-0	Terphenyl-d14	80%	45-135%

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-MB	R05357.D	1	10/19/06	NJ	10/16/06	OP18174	SR256

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	330	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	330	130	ug/kg	
86-74-8	Carbazole	ND	170	33	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-MB	R05357.D	1	10/19/06	NJ	10/16/06	OP18174	SR256

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
88-74-4	2-Nitroaniline	ND	330	83	ug/kg	
99-09-2	3-Nitroaniline	ND	330	83	ug/kg	
100-01-6	4-Nitroaniline	ND	330	120	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	78%	45-114%
4165-62-2	Phenol-d5	82%	44-124%

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-MB	R05357.D	1	10/19/06	NJ	10/16/06	OP18174	SR256

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	67%	50-128%
4165-60-0	Nitrobenzene-d5	72%	41-123%
321-60-8	2-Fluorobiphenyl	71%	46-122%
1718-51-0	Terphenyl-d14	76%	45-135%

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-BS	R05340.D	1	10/18/06	NJ	10/16/06	OP18174	SR255

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	2360	71	48-121
95-57-8	2-Chlorophenol	1670	1150	69	61-101
59-50-7	4-Chloro-3-methyl phenol	1670	1210	73	63-107
120-83-2	2,4-Dichlorophenol	1670	1170	70	65-106
105-67-9	2,4-Dimethylphenol	1670	1000	60	53-96
51-28-5	2,4-Dinitrophenol	3330	2340	70	42-122
534-52-1	4,6-Dinitro-o-cresol	3330	2560	77	60-122
95-48-7	2-Methylphenol	1670	1080	65	58-98
	3&4-Methylphenol	3330	2310	69	58-99
88-75-5	2-Nitrophenol	1670	1150	69	59-103
100-02-7	4-Nitrophenol	3330	2550	77	66-111
87-86-5	Pentachlorophenol	3330	2230	67	58-120
108-95-2	Phenol	1670	1190	71	59-104
95-95-4	2,4,5-Trichlorophenol	1670	1210	73	65-105
88-06-2	2,4,6-Trichlorophenol	1670	1190	71	66-106
83-32-9	Acenaphthene	1670	1170	70	63-100
208-96-8	Acenaphthylene	1670	1170	70	62-100
120-12-7	Anthracene	1670	1250	75	67-104
56-55-3	Benzo(a)anthracene	1670	1250	75	66-107
50-32-8	Benzo(a)pyrene	1670	1250	75	63-106
205-99-2	Benzo(b)fluoranthene	1670	1280	77	65-110
191-24-2	Benzo(g,h,i)perylene	1670	1240	74	60-107
207-08-9	Benzo(k)fluoranthene	1670	1250	75	66-111
101-55-3	4-Bromophenyl phenyl ether	1670	1190	71	66-108
85-68-7	Butyl benzyl phthalate	1670	1270	76	62-112
100-51-6	Benzyl Alcohol	1670	1300	78	60-103
91-58-7	2-Chloronaphthalene	1670	1140	68	62-98
106-47-8	4-Chloroaniline	1670	864	52	20-87
86-74-8	Carbazole	1670	1270	76	65-108
218-01-9	Chrysene	1670	1260	76	66-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1060	64	54-98
111-44-4	bis(2-Chloroethyl)ether	1670	1140	68	57-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1070	64	48-102
7005-72-3	4-Chlorophenyl phenyl ether	1670	1170	70	65-106
95-50-1	1,2-Dichlorobenzene	1670	1060	64	50-97
541-73-1	1,3-Dichlorobenzene	1670	1000	60	46-94

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-BS	R05340.D	1	10/18/06	NJ	10/16/06	OP18174	SR255

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	1670	1020	61	47-95
121-14-2	2,4-Dinitrotoluene	1670	1240	74	60-107
606-20-2	2,6-Dinitrotoluene	1670	1170	70	59-103
91-94-1	3,3'-Dichlorobenzidine	1670	1060	64	32-91
53-70-3	Dibenzo(a,h)anthracene	1670	1260	76	59-108
132-64-9	Dibenzofuran	1670	1170	70	64-103
84-74-2	Di-n-butyl phthalate	1670	1220	73	64-109
117-84-0	Di-n-octyl phthalate	1670	1340	80	64-123
84-66-2	Diethyl phthalate	1670	1240	74	61-112
131-11-3	Dimethyl phthalate	1670	1200	72	63-107
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1270	76	62-114
206-44-0	Fluoranthene	1670	1270	76	64-110
86-73-7	Fluorene	1670	1200	72	63-102
118-74-1	Hexachlorobenzene	1670	1160	70	64-104
87-68-3	Hexachlorobutadiene	1670	1020	61	56-99
77-47-4	Hexachlorocyclopentadiene	1670	1040	62	32-93
67-72-1	Hexachloroethane	1670	1010	61	47-96
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1270	76	60-110
78-59-1	Isophorone	1670	1200	72	60-100
91-57-6	2-Methylnaphthalene	1670	1180	71	60-104
88-74-4	2-Nitroaniline	1670	1310	79	61-105
99-09-2	3-Nitroaniline	1670	986	59	34-84
100-01-6	4-Nitroaniline	1670	1230	74	53-105
91-20-3	Naphthalene	1670	1110	67	58-96
98-95-3	Nitrobenzene	1670	1140	68	58-98
621-64-7	N-Nitroso-di-n-propylamine	1670	1130	68	54-95
86-30-6	N-Nitrosodiphenylamine	1670	1200	72	66-106
85-01-8	Phenanthrene	1670	1240	74	66-105
129-00-0	Pyrene	1670	1260	76	66-109
120-82-1	1,2,4-Trichlorobenzene	1670	1050	63	58-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	72%	45-114%
4165-62-2	Phenol-d5	73%	44-124%

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-BS	R05340.D	1	10/18/06	NJ	10/16/06	OP18174	SR255

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	72%	50-128%
4165-60-0	Nitrobenzene-d5	67%	41-123%
321-60-8	2-Fluorobiphenyl	67%	46-122%
1718-51-0	Terphenyl-d14	72%	45-135%

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-BS	R05356.D	1	10/19/06	NJ	10/16/06	OP18174	SR256

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	2650	80	48-121
95-57-8	2-Chlorophenol	1670	1200	72	61-101
59-50-7	4-Chloro-3-methyl phenol	1670	1300	78	63-107
120-83-2	2,4-Dichlorophenol	1670	1220	73	65-106
105-67-9	2,4-Dimethylphenol	1670	997	60	53-96
51-28-5	2,4-Dinitrophenol	3330	2460	74	42-122
534-52-1	4,6-Dinitro-o-cresol	3330	2570	77	60-122
95-48-7	2-Methylphenol	1670	1160	70	58-98
	3&4-Methylphenol	3330	2490	75	58-99
88-75-5	2-Nitrophenol	1670	1130	68	59-103
100-02-7	4-Nitrophenol	3330	2800	84	66-111
87-86-5	Pentachlorophenol	3330	2330	70	58-120
108-95-2	Phenol	1670	1270	76	59-104
95-95-4	2,4,5-Trichlorophenol	1670	1220	73	65-105
88-06-2	2,4,6-Trichlorophenol	1670	1190	71	66-106
83-32-9	Acenaphthene	1670	1180	71	63-100
208-96-8	Acenaphthylene	1670	1170	70	62-100
120-12-7	Anthracene	1670	1240	74	67-104
56-55-3	Benzo(a)anthracene	1670	1250	75	66-107
50-32-8	Benzo(a)pyrene	1670	1250	75	63-106
205-99-2	Benzo(b)fluoranthene	1670	1260	76	65-110
191-24-2	Benzo(g,h,i)perylene	1670	1220	73	60-107
207-08-9	Benzo(k)fluoranthene	1670	1290	77	66-111
101-55-3	4-Bromophenyl phenyl ether	1670	1160	70	66-108
85-68-7	Butyl benzyl phthalate	1670	1290	77	62-112
100-51-6	Benzyl Alcohol	1670	1340	80	60-103
91-58-7	2-Chloronaphthalene	1670	1120	67	62-98
106-47-8	4-Chloroaniline	1670	783	47	20-87
86-74-8	Carbazole	1670	1290	77	65-108
218-01-9	Chrysene	1670	1280	77	66-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1080	65	54-98
111-44-4	bis(2-Chloroethyl)ether	1670	1160	70	57-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1100	66	48-102
7005-72-3	4-Chlorophenyl phenyl ether	1670	1210	73	65-106
95-50-1	1,2-Dichlorobenzene	1670	1060	64	50-97
541-73-1	1,3-Dichlorobenzene	1670	986	59	46-94

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-BS	R05356.D	1	10/19/06	NJ	10/16/06	OP18174	SR256

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	1670	1020	61	47-95
121-14-2	2,4-Dinitrotoluene	1670	1310	79	60-107
606-20-2	2,6-Dinitrotoluene	1670	1220	73	59-103
91-94-1	3,3'-Dichlorobenzidine	1670	1030	62	32-91
53-70-3	Dibenzo(a,h)anthracene	1670	1250	75	59-108
132-64-9	Dibenzofuran	1670	1200	72	64-103
84-74-2	Di-n-butyl phthalate	1670	1260	76	64-109
117-84-0	Di-n-octyl phthalate	1670	1360	82	64-123
84-66-2	Diethyl phthalate	1670	1310	79	61-112
131-11-3	Dimethyl phthalate	1670	1250	75	63-107
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1280	77	62-114
206-44-0	Fluoranthene	1670	1310	79	64-110
86-73-7	Fluorene	1670	1240	74	63-102
118-74-1	Hexachlorobenzene	1670	1140	68	64-104
87-68-3	Hexachlorobutadiene	1670	1020	61	56-99
77-47-4	Hexachlorocyclopentadiene	1670	917	55	32-93
67-72-1	Hexachloroethane	1670	1020	61	47-96
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1260	76	60-110
78-59-1	Isophorone	1670	1230	74	60-100
91-57-6	2-Methylnaphthalene	1670	1220	73	60-104
88-74-4	2-Nitroaniline	1670	1320	79	61-105
99-09-2	3-Nitroaniline	1670	1050	63	34-84
100-01-6	4-Nitroaniline	1670	1270	76	53-105
91-20-3	Naphthalene	1670	1120	67	58-96
98-95-3	Nitrobenzene	1670	1150	69	58-98
621-64-7	N-Nitroso-di-n-propylamine	1670	1230	74	54-95
86-30-6	N-Nitrosodiphenylamine	1670	1150	69	66-106
85-01-8	Phenanthrene	1670	1230	74	66-105
129-00-0	Pyrene	1670	1220	73	66-109
120-82-1	1,2,4-Trichlorobenzene	1670	1070	64	58-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	75%	45-114%
4165-62-2	Phenol-d5	77%	44-124%

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-BS	R05356.D	1	10/19/06	NJ	10/16/06	OP18174	SR256

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	70%	50-128%
4165-60-0	Nitrobenzene-d5	66%	41-123%
321-60-8	2-Fluorobiphenyl	66%	46-122%
1718-51-0	Terphenyl-d14	70%	45-135%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-MS	R05343.D	1	10/18/06	NJ	10/16/06	OP18174	SR255
OP18174-MSD	R05344.D	1	10/18/06	NJ	10/16/06	OP18174	SR255
F44498-1	R05342.D	1	10/18/06	NJ	10/16/06	OP18174	SR255

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	F44498-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		3920	2320	59	2680	67	14	10-124/35
95-57-8	2-Chlorophenol	ND		1960	896	46	1230	62	31*	46-99/28
59-50-7	4-Chloro-3-methyl phenol	ND		1960	1150	59	1320	66	14	51-106/24
120-83-2	2,4-Dichlorophenol	ND		1960	1010	52	1230	62	20	51-105/24
105-67-9	2,4-Dimethylphenol	ND		1960	843	43*	998	50	17	47-95/27
51-28-5	2,4-Dinitrophenol	ND		3920	2380	61	2760	69	15	10-114/50
534-52-1	4,6-Dinitro-o-cresol	ND		3920	2590	66	3000	75	15	11-120/39
95-48-7	2-Methylphenol	ND		1960	865	44*	1150	58	28*	48-96/26
	3&4-Methylphenol	ND		3920	1900	49*	2420	61	24	50-95/26
88-75-5	2-Nitrophenol	ND		1960	913	47	1200	60	27	36-109/29
100-02-7	4-Nitrophenol	ND		3920	2540	65	2900	73	13	50-107/25
87-86-5	Pentachlorophenol	ND		3920	2500	64	2980	75	18	45-118/30
108-95-2	Phenol	ND		1960	920	47	1280	64	33*	44-105/27
95-95-4	2,4,5-Trichlorophenol	ND		1960	1150	59	1340	67	15	58-101/23
88-06-2	2,4,6-Trichlorophenol	ND		1960	1120	57	1320	66	16	56-103/23
83-32-9	Acenaphthene	ND		1960	1080	55	1290	65	18	47-106/28
208-96-8	Acenaphthylene	ND		1960	1070	55	1260	63	16	48-102/24
120-12-7	Anthracene	ND		1960	1230	63	1430	72	15	52-108/26
56-55-3	Benzo(a)anthracene	ND		1960	1260	64	1470	74	15	54-106/26
50-32-8	Benzo(a)pyrene	ND		1960	1220	62	1440	72	17	53-104/25
205-99-2	Benzo(b)fluoranthene	ND		1960	1240	63	1470	74	17	53-109/27
191-24-2	Benzo(g,h,i)perylene	ND		1960	1230	63	1450	73	16	53-104/28
207-08-9	Benzo(k)fluoranthene	ND		1960	1250	64	1490	75	18	55-107/29
101-55-3	4-Bromophenyl phenyl ether	ND		1960	1160	59	1390	70	18	59-102/23
85-68-7	Butyl benzyl phthalate	ND		1960	1270	65	1490	75	16	58-105/23
100-51-6	Benzyl Alcohol	ND		1960	993	51*	1360	68	31*	52-97/30
91-58-7	2-Chloronaphthalene	ND		1960	1000	51*	1230	62	21	54-92/24
106-47-8	4-Chloroaniline	ND		1960	758	39	940	47	21	21-92/35
86-74-8	Carbazole	ND		1960	1240	63	1470	74	17	56-104/25
218-01-9	Chrysene	ND		1960	1280	65	1490	75	15	54-108/26
111-91-1	bis(2-Chloroethoxy)methane	ND		1960	851	43*	1120	56	27	44-94/27
111-44-4	bis(2-Chloroethyl)ether	ND		1960	903	46	1220	61	30	40-104/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		1960	828	42	1120	56	30*	40-91/29
7005-72-3	4-Chlorophenyl phenyl ether	ND		1960	1140	58	1320	66	15	57-101/22
95-50-1	1,2-Dichlorobenzene	ND		1960	829	42	1090	55	27	36-88/34
541-73-1	1,3-Dichlorobenzene	ND		1960	788	40	1020	51	26	30-85/33

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-MS	R05343.D	1	10/18/06	NJ	10/16/06	OP18174	SR255
OP18174-MSD	R05344.D	1	10/18/06	NJ	10/16/06	OP18174	SR255
F44498-1	R05342.D	1	10/18/06	NJ	10/16/06	OP18174	SR255

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	F44498-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		1960	796	41	1050	53	28	30-87/33
121-14-2	2,4-Dinitrotoluene	ND		1960	1240	63	1420	71	14	46-105/28
606-20-2	2,6-Dinitrotoluene	ND		1960	1140	58	1320	66	15	46-102/26
91-94-1	3,3'-Dichlorobenzidine	ND		1960	833	43	1040	52	22	22-104/35
53-70-3	Dibenzo(a,h)anthracene	ND		1960	1250	64	1480	74	17	53-103/26
132-64-9	Dibenzofuran	ND		1960	1070	55	1320	66	21	53-103/27
84-74-2	Di-n-butyl phthalate	ND		1960	1220	62	1420	71	15	55-104/22
117-84-0	Di-n-octyl phthalate	ND		1960	1300	66	1540	77	17	61-115/24
84-66-2	Diethyl phthalate	ND		1960	1230	63	1430	72	15	54-104/22
131-11-3	Dimethyl phthalate	ND		1960	1190	61	1370	69	14	55-100/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1960	1270	65	1470	74	15	56-110/25
206-44-0	Fluoranthene	ND		1960	1280	65	1480	74	14	52-109/28
86-73-7	Fluorene	ND		1960	1170	60	1360	68	15	55-99/26
118-74-1	Hexachlorobenzene	ND		1960	1140	58	1350	68	17	57-99/23
87-68-3	Hexachlorobutadiene	ND		1960	807	41	1060	53	27	36-97/35
77-47-4	Hexachlorocyclopentadiene	ND		1960	842	43	1150	58	31	10-88/50
67-72-1	Hexachloroethane	ND		1960	776	40	1020	51	27	22-90/41
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1960	1260	64	1480	74	16	53-108/29
78-59-1	Isophorone	ND		1960	1020	52	1270	64	22	46-99/26
91-57-6	2-Methylnaphthalene	ND		1960	923	47	1260	63	31*	45-104/28
88-74-4	2-Nitroaniline	ND		1960	1200	61	1460	73	20	51-104/23
99-09-2	3-Nitroaniline	ND		1960	1010	52	1190	60	16	30-94/31
100-01-6	4-Nitroaniline	ND		1960	1130	58	1300	65	14	39-100/27
91-20-3	Naphthalene	ND		1960	890	45	1180	59	28	44-94/31
98-95-3	Nitrobenzene	ND		1960	901	46	1210	61	29	43-97/29
621-64-7	N-Nitroso-di-n-propylamine	ND		1960	918	47	1210	61	27	40-98/27
86-30-6	N-Nitrosodiphenylamine	ND		1960	1170	60	1370	69	16	55-104/22
85-01-8	Phenanthrene	ND		1960	1240	63	1450	73	16	53-106/26
129-00-0	Pyrene	ND		1960	1240	63	1470	74	17	55-111/30
120-82-1	1,2,4-Trichlorobenzene	ND		1960	859	44	1120	56	26	41-95/32

CAS No.	Surrogate Recoveries	MS	MSD	F44498-1	Limits
367-12-4	2-Fluorophenol	48%	65%	65%	45-114%
4165-62-2	Phenol-d5	50%	66%	65%	44-124%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18174-MS	R05343.D	1	10/18/06	NJ	10/16/06	OP18174	SR255
OP18174-MSD	R05344.D	1	10/18/06	NJ	10/16/06	OP18174	SR255
F44498-1	R05342.D	1	10/18/06	NJ	10/16/06	OP18174	SR255

The QC reported here applies to the following samples: Method: SW846 8270C

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Surrogate Recoveries	MS	MSD	F44498-1	Limits
118-79-6	2,4,6-Tribromophenol	61%	70%	59%	50-128%
4165-60-0	Nitrobenzene-d5	46%	61%	59%	41-123%
321-60-8	2-Fluorobiphenyl	50%	61%	59%	46-122%
1718-51-0	Terphenyl-d14	61%	71%	62%	45-135%

GC Volatiles

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QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV1405-MB	UV024418.D	1	10/18/06	MM	n/a	n/a	GUV1405

The QC reported here applies to the following samples: Method: MADEP VPH

F44498-1A, F44498-2A, F44498-3A, F44498-4A

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2800	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1000	510	ug/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	BFB	95%	70-130%
460-00-4	BFB	93%	70-130%

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV1405-BS	UV024417.D	1	10/18/06	MM	n/a	n/a	GUV1405

The QC reported here applies to the following samples: Method: MADEP VPH

F44498-1A, F44498-2A, F44498-3A, F44498-4A

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	C5- C8 Aliphatics (Unadj.)	25000	27400	110	70-130
	C9- C12 Aliphatics (Unadj.)	25000	26900	108	70-130
	C9- C10 Aromatics (Unadj.)	4160	4700	113	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	BFB	106%	70-130%
460-00-4	BFB	101%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44498-1AMS	UV024431.D	1	10/18/06	MM	n/a	n/a	GUV1405
F44498-1AMSD	UV024432.D	1	10/18/06	MM	n/a	n/a	GUV1405
F44498-1A	UV024419.D	1	10/18/06	MM	n/a	n/a	GUV1405

The QC reported here applies to the following samples: Method: MADEP VPH

F44498-1A, F44498-2A, F44498-3A, F44498-4A

CAS No.	Compound	F44498-1A ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	ND		35700	35900	100	32700	91	9	70-130/50
	C9- C12 Aliphatics (Unadj.)	ND		35700	35400	99	32600	91	8	70-130/50
	C9- C10 Aromatics (Unadj.)	ND		5960	6190	104	5980	100	3	70-130/50

CAS No.	Surrogate Recoveries	MS	MSD	F44498-1A	Limits
460-00-4	BFB	79%	76%	80%	70-130%
460-00-4	BFB	77%	75%	78%	70-130%

Duplicate Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44498-2ADUP	UV024430.D	1	10/18/06	MM	n/a	n/a	GUV1405
F44498-2A	UV024420.D	1	10/18/06	MM	n/a	n/a	GUV1405

The QC reported here applies to the following samples: Method: MADEP VPH

F44498-1A, F44498-2A, F44498-3A, F44498-4A

CAS No.	Compound	F44498-2A ug/kg	Q	DUP ug/kg	Q	RPD	Limits
	C5- C8 Aliphatics (Unadj.)	ND		ND		nc	
	C9- C12 Aliphatics (Unadj.)	ND		ND		nc	
	C9- C10 Aromatics (Unadj.)	ND		ND		nc	

CAS No.	Surrogate Recoveries	DUP	F44498-2A	Limits
460-00-4	BFB	67%*	71%	70-130%
460-00-4	BFB	67%*	70%	70-130%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18172-MB	ZF22000.D	1	10/23/06	AA	10/16/06	OP18172	GZF1025

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	77%	40-140%
580-13-2	2-Bromonaphthalene	59%	40-140%
84-15-1	o-Terphenyl	82%	40-140%
321-60-8	2-Fluorobiphenyl	81%	40-140%

Method Blank Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18172-MB	ZF22051.D	1	10/26/06	ME	10/16/06	OP18172	GZF1026

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	200	200	ug/kg	
	C9-C18 Aliphatics	ND	200	200	ug/kg	
	C19-C36 Aliphatics	ND	200	200	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	77%	40-140%
580-13-2	2-Bromonaphthalene	60%	40-140%
84-15-1	o-Terphenyl	84%	40-140%
321-60-8	2-Fluorobiphenyl	83%	40-140%

Blank Spike Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18172-BS	ZF21999.D	1	10/23/06	AA	10/16/06	OP18172	GZF1025

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	C11-C22 Aromatics (Unadj.)	28300	25300	89	40-140
	C9-C18 Aliphatics	10000	7730	77	40-140
	C19-C36 Aliphatics	13300	11400	85	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	46%	40-140%
580-13-2	2-Bromonaphthalene	80%	40-140%
84-15-1	o-Terphenyl	83%	40-140%
321-60-8	2-Fluorobiphenyl	83%	40-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18172-MS	ZF22006.D	1	10/23/06	AA	10/16/06	OP18172	GZF1025
OP18172-MSD	ZF22007.D	1	10/23/06	AA	10/16/06	OP18172	GZF1025
F44498-4	ZF22005.D	1	10/23/06	AA	10/16/06	OP18172	GZF1025

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	F44498-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	ND		35700	30800	86	30400	87	1	40-140/50
	C9-C18 Aliphatics	ND		12600	13200	105	11300	92	16	40-140/50
	C19-C36 Aliphatics	ND		16800	17300	103	15900	97	8	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	F44498-4	Limits
3386-33-2	1-Chlorooctadecane	86%	53%	59%	40-140%
580-13-2	2-Bromonaphthalene	76%	88%	86%	40-140%
84-15-1	o-Terphenyl	93%	88%	82%	40-140%
321-60-8	2-Fluorobiphenyl	85%	92%	91%	40-140%

Duplicate Summary

Job Number: F44498
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18172-DUP	ZF22002.D	1	10/23/06	AA	10/16/06	OP18172	GZF1025
F44498-1	ZF22001.D	1	10/23/06	AA	10/16/06	OP18172	GZF1025

The QC reported here applies to the following samples: Method: MADEP-EPH-98-1

F44498-1, F44498-2, F44498-3, F44498-4

CAS No.	Compound	F44498-1 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
	C11-C22 Aromatics (Unadj.)	ND		ND		nc	
	C9-C18 Aliphatics	ND		ND		nc	
	C19-C36 Aliphatics	ND		ND		nc	

CAS No.	Surrogate Recoveries	DUP	F44498-1	Limits
3386-33-2	1-Chlorooctadecane	36%*	54%	40-140%
580-13-2	2-Bromonaphthalene	93%	74%	40-140%
84-15-1	o-Terphenyl	85%	67%	40-140%
321-60-8	2-Fluorobiphenyl	94%	79%	40-140%

Southeast
ACCUTEST
Laboratories

11/16/06

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT-49

109972

Accutest Job Number: F44960

Sampling Date: 11/02/06

Report to:

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

ATTN: Natasha Sullivan

Total number of pages in report:

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

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

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Accutest Laboratories

Sample Summary

Shaw E & I, Inc.

Job No: F44960

Camp Lejeune-TT-49
Project No: 109972

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F44960-1	11/02/06	15:00	MM	11/03/06	AQ	Water	TT-TW-001
F44960-2	11/02/06	16:30	MM	11/03/06	AQ	Water	TT-TW-002
F44960-3	11/02/06	00:00	MM	11/03/06	AQ	Trip Blank Water	TT-TRIP BLANK

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TW-001		
Lab Sample ID:	F44960-1	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R05802.D	1	11/07/06	NJ	11/06/06	OP18422	SR272
Run #2							

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

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	24	9.6	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	1.9	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.6	4.8	ug/l	
95-48-7	2-Methylphenol	ND	4.8	1.9	ug/l	
	3&4-Methylphenol	ND	4.8	1.9	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	24	9.6	ug/l	
87-86-5	Pentachlorophenol	ND	24	9.6	ug/l	
108-95-2	Phenol	ND	4.8	1.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	1.9	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	1.9	ug/l	
83-32-9	Acenaphthene	ND	4.8	0.96	ug/l	
208-96-8	Acenaphthylene	ND	4.8	0.96	ug/l	
120-12-7	Anthracene	ND	4.8	0.96	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.96	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.96	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.96	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.96	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.96	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.9	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.96	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.96	ug/l	
106-47-8	4-Chloroaniline	ND	9.6	3.8	ug/l	
86-74-8	Carbazole	ND	4.8	0.96	ug/l	
218-01-9	Chrysene	ND	4.8	0.96	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.96	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	1.9	ug/l	

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

Report of Analysis

Client Sample ID:	TT-TW-001		
Lab Sample ID:	F44960-1	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.96	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.96	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.96	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.96	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.96	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	1.9	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	1.9	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.6	4.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
132-64-9	Dibenzofuran	ND	4.8	0.96	ug/l	
84-74-2	Di-n-butyl phthalate	6.8	4.8	1.9	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	2.4	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.9	ug/l	
131-11-3	Dimethyl phthalate	3.9	4.8	1.9	ug/l	J
117-81-7	bis(2-Ethylhexyl)phthalate	11.4	4.8	2.4	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.96	ug/l	
86-73-7	Fluorene	ND	4.8	0.96	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.96	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	1.9	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	1.9	ug/l	
67-72-1	Hexachloroethane	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
78-59-1	Isophorone	ND	4.8	0.96	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.8	0.96	ug/l	
88-74-4	2-Nitroaniline	ND	9.6	3.8	ug/l	
99-09-2	3-Nitroaniline	ND	9.6	3.8	ug/l	
100-01-6	4-Nitroaniline	ND	9.6	3.8	ug/l	
91-20-3	Naphthalene	ND	4.8	0.96	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.96	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	1.9	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.8	0.96	ug/l	
129-00-0	Pyrene	ND	4.8	0.96	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.96	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	20%		19-90%
4165-62-2	Phenol-d5	12%		10-68%
118-79-6	2,4,6-Tribromophenol	55%		36-137%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TW-001		
Lab Sample ID:	F44960-1	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		49-119%
321-60-8	2-Fluorobiphenyl	61%		45-118%
1718-51-0	Terphenyl-d14	66%		46-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
104	1-Hexanol, 2-ethyl-	4.57	23	ug/l	JN
95	Benzothiazole	5.83	6.4	ug/l	JN
23676	Benzoic acid, 4-ethoxy-, ethyl est	7.94	6.2	ug/l	JN
	Total TIC, Semi-Volatile		35.6	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TW-001		
Lab Sample ID:	F44960-1	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	QQ020047.D	1	11/08/06	AF	n/a	n/a	GQQ771
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1.9	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	50.2	1.0	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
1330-20-7	Xylenes (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		71-130%
98-08-8	aaa-Trifluorotoluene	94%		71-124%

(a) All hits confirmed by dual column analysis.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TW-001		
Lab Sample ID:	F44960-1	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	MADEP VPH	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV024768.D	1	11/07/06	MM	n/a	n/a	GUV1421
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	75	50	ug/l	
	C9- C12 Aliphatics (Unadj.)	463	55	30	ug/l	
	C9- C10 Aromatics (Unadj.)	335	20	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	92%		70-130%
460-00-4	BFB	100%		70-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TW-001		
Lab Sample ID:	F44960-1	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	SW846 8015	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD072829.D	1	11/10/06	MM	n/a	n/a	GCD3014
Run #2 [a]	CD072802.D	1	11/09/06	MM	n/a	n/a	GCD3012

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.337	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	221% [b]	210% [b]	65-127%
98-08-8	aaa-Trifluorotoluene	86%	86%	65-124%

(a) Confirmation run.
(b) Outside control limits due to matrix interference. Confirmed by reanalysis.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TW-001		
Lab Sample ID:	F44960-1	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL13397.D	1	11/07/06	SKW	11/06/06	OP18419	GLL497
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.353	0.24	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		44-123%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TW-002		
Lab Sample ID:	F44960-2	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L034719.D	1	11/09/06	NJ	11/09/06	OP18456	SL1783
Run #2	R05873.D	4	11/10/06	NJ	11/09/06	OP18456	SR275

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

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	24	9.5	ug/l	
95-57-8	2-Chlorophenol	ND	4.8	1.9	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.8	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.8	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.8	1.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.5	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.5	4.8	ug/l	
95-48-7	2-Methylphenol	ND	4.8	1.9	ug/l	
	3&4-Methylphenol	ND	4.8	1.9	ug/l	
88-75-5	2-Nitrophenol	ND	4.8	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	24	9.5	ug/l	
87-86-5	Pentachlorophenol	ND	24	9.5	ug/l	
108-95-2	Phenol	ND	4.8	1.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.8	1.9	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.8	1.9	ug/l	
83-32-9	Acenaphthene	6.0	4.8	0.95	ug/l	
208-96-8	Acenaphthylene	1.5	4.8	0.95	ug/l	J
120-12-7	Anthracene	ND	4.8	0.95	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.8	0.95	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.8	0.95	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.8	0.95	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.8	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.8	0.95	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	4.8	0.95	ug/l	
85-68-7	Butyl benzyl phthalate	ND	4.8	1.9	ug/l	
100-51-6	Benzyl Alcohol	ND	4.8	0.95	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.8	0.95	ug/l	
106-47-8	4-Chloroaniline	ND	9.5	3.8	ug/l	
86-74-8	Carbazole	3.7	4.8	0.95	ug/l	J
218-01-9	Chrysene	ND	4.8	0.95	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	4.8	0.95	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	4.8	1.9	ug/l	

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

Report of Analysis

Client Sample ID:	TT-TW-002		
Lab Sample ID:	F44960-2	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	4.8	0.95	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	4.8	0.95	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.95	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.95	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.95	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.8	1.9	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.8	1.9	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	9.5	4.8	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	4.8	1.9	ug/l	
132-64-9	Dibenzofuran	7.4	4.8	0.95	ug/l	
84-74-2	Di-n-butyl phthalate	24.2	4.8	1.9	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.8	2.4	ug/l	
84-66-2	Diethyl phthalate	ND	4.8	1.9	ug/l	
131-11-3	Dimethyl phthalate	ND	4.8	1.9	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	4.8	2.4	ug/l	
206-44-0	Fluoranthene	ND	4.8	0.95	ug/l	
86-73-7	Fluorene	8.9	4.8	0.95	ug/l	
118-74-1	Hexachlorobenzene	ND	4.8	0.95	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.8	1.9	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	4.8	1.9	ug/l	
67-72-1	Hexachloroethane	ND	4.8	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	4.8	1.9	ug/l	
78-59-1	Isophorone	ND	4.8	0.95	ug/l	
91-57-6	2-Methylnaphthalene	347 [a]	19	3.8	ug/l	
88-74-4	2-Nitroaniline	ND	9.5	3.8	ug/l	
99-09-2	3-Nitroaniline	ND	9.5	3.8	ug/l	
100-01-6	4-Nitroaniline	ND	9.5	3.8	ug/l	
91-20-3	Naphthalene	279 [a]	19	3.8	ug/l	
98-95-3	Nitrobenzene	ND	4.8	0.95	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	4.8	1.9	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.8	1.9	ug/l	
85-01-8	Phenanthrene	7.7	4.8	0.95	ug/l	
129-00-0	Pyrene	ND	4.8	0.95	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.95	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%	39%	19-90%
4165-62-2	Phenol-d5	23%	24%	10-68%
118-79-6	2,4,6-Tribromophenol	84%	92%	36-137%

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

Report of Analysis

Client Sample ID:	TT-TW-002		
Lab Sample ID:	F44960-2	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	EPA 625 EPA 625	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%	73%	49-119%
321-60-8	2-Fluorobiphenyl	72%	79%	45-118%
1718-51-0	Terphenyl-d14	65%	63%	46-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
100-41-4	Ethylbenzene	3.82	40	ug/l	JN
300-57-2	Benzene, 2-propenyl-	5.05	26	ug/l	JN
49826-53-1	Bicyclo[3.2.1]oct-2-ene, 3-methyl-4-meth	5.16	15	ug/l	JN
767-58-8	Indan, 1-methyl-	5.73	15	ug/l	JN
3333-13-9	Benzene, 1-methyl-4-(2-propenyl)-	5.79	52	ug/l	JN
119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	5.89	19	ug/l	JN
1000164-42-6	Bicyclo[4.2.1]nona-2,4,7-triene, 7-ethyl	6.35	17	ug/l	JN
4489-84-3	Benzene, (3-methyl-2-butenyl)-	6.57	15	ug/l	JN
1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl	6.80	17	ug/l	JN
26465-81-6	1H-Inden-1-one, 2,3-dihydro-3,3-dimethyl	7.17	15	ug/l	JN
1127-76-0	Naphthalene, 1-ethyl-	7.62	23	ug/l	JN
581-42-0	Naphthalene, 2,6-dimethyl-	7.72	69	ug/l	JN
581-40-8	Naphthalene, 2,3-dimethyl-	7.83	97	ug/l	JN
582-16-1	Naphthalene, 2,7-dimethyl-	7.86	53	ug/l	JN
571-58-4	Naphthalene, 1,4-dimethyl-	7.99	29	ug/l	JN
2131-42-2	Naphthalene, 1,4,6-trimethyl-	8.51	26	ug/l	JN
829-26-5	Naphthalene, 2,3,6-trimethyl-	8.85	36	ug/l	JN
60829-58-5	1-Hydroxy-4-(1-hydroxyiminoethyl)-2,2,5,	9.32	19	ug/l	JN
613-33-2	4,4'-Dimethylbiphenyl	10.22	18	ug/l	JN
1000213-52-2	7-Chloro-4-methoxy-3-methylquinoline	20.93	25	ug/l	JN
	Total TIC, Semi-Volatile		626	ug/l	J

(a) Result is from Run# 2

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TW-002		
Lab Sample ID:	F44960-2	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ020048.D	1	11/08/06	AF	n/a	n/a	GQQ771
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		71-130%
98-08-8	aaa-Trifluorotoluene	99%		71-124%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TW-002		
Lab Sample ID:	F44960-2	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	MADEP VPH	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV024772.D	1	11/07/06	MM	n/a	n/a	GUV1421
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

MADEP VPH List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	75%		70-130%
460-00-4	BFB	76%		70-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TW-002		
Lab Sample ID:	F44960-2	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	SW846 8015	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD072803.D	1	11/09/06	MM	n/a	n/a	GCD3012
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		65-127%
98-08-8	aaa-Trifluorotoluene	85%		65-124%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TW-002		
Lab Sample ID:	F44960-2	Date Sampled:	11/02/06
Matrix:	AQ - Water	Date Received:	11/03/06
Method:	SW846 8015 M SW846 3510C	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL13446.D	4	11/09/06	ME	11/09/06	OP18455	GLL499
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	5.50	0.96	0.38	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		44-123%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-TRIP BLANK		
Lab Sample ID:	F44960-3	Date Sampled:	11/02/06
Matrix:	AQ - Trip Blank Water	Date Received:	11/03/06
Method:	EPA 601/602	Percent Solids:	n/a
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QQ020049.D	1	11/08/06	AF	n/a	n/a	GQQ771
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, Full List

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		71-130%
98-08-8	aaa-Trifluorotoluene	93%		71-124%

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

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18422-MB	R05801.D	1	11/07/06	NJ	11/06/06	OP18422	SR272

The QC reported here applies to the following samples: Method: EPA 625

F44960-1

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	4.0	ug/l	
86-74-8	Carbazole	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18422-MB	R05801.D	1	11/07/06	NJ	11/06/06	OP18422	SR272

The QC reported here applies to the following samples: Method: EPA 625

F44960-1

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	10	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	10	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	35%	19-90%
4165-62-2	Phenol-d5	21%	10-68%

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18422-MB	R05801.D	1	11/07/06	NJ	11/06/06	OP18422	SR272

The QC reported here applies to the following samples: Method: EPA 625

F44960-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	65%	36-137%
4165-60-0	Nitrobenzene-d5	62%	49-119%
321-60-8	2-Fluorobiphenyl	62%	45-118%
1718-51-0	Terphenyl-d14	66%	46-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/l	

(a) No TICs detected.

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18456-MB	L034718.D	1	11/09/06	NJ	11/09/06	OP18456	SL1783

The QC reported here applies to the following samples: Method: EPA 625

F44960-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	4.0	ug/l	
86-74-8	Carbazole	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18456-MB	L034718.D	1	11/09/06	NJ	11/09/06	OP18456	SL1783

The QC reported here applies to the following samples: Method: EPA 625

F44960-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	10	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	10	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	29%	19-90%
4165-62-2	Phenol-d5	16%	10-68%

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18456-MB	L034718.D	1	11/09/06	NJ	11/09/06	OP18456	SL1783

The QC reported here applies to the following samples: Method: EPA 625

F44960-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	68%	36-137%
4165-60-0	Nitrobenzene-d5	61%	49-119%
321-60-8	2-Fluorobiphenyl	60%	45-118%
1718-51-0	Terphenyl-d14	71%	46-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/l	

(a) No TICs detected.

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18456-MB	R05872.D	1	11/10/06	NJ	11/09/06	OP18456	SR275

The QC reported here applies to the following samples: Method: EPA 625

F44960-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	25	10	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	2.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	2.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	10	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	5.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	2.0	ug/l	
	3&4-Methylphenol	ND	5.0	2.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	2.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	10	ug/l	
87-86-5	Pentachlorophenol	ND	25	10	ug/l	
108-95-2	Phenol	ND	5.0	2.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	1.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	1.0	ug/l	
120-12-7	Anthracene	ND	5.0	1.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	1.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	1.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	1.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	1.0	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	5.0	1.0	ug/l	
85-68-7	Butyl benzyl phthalate	ND	5.0	2.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	1.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	1.0	ug/l	
106-47-8	4-Chloroaniline	ND	10	4.0	ug/l	
86-74-8	Carbazole	ND	5.0	1.0	ug/l	
218-01-9	Chrysene	ND	5.0	1.0	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	1.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	2.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	1.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	5.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18456-MB	R05872.D	1	11/10/06	NJ	11/09/06	OP18456	SR275

The QC reported here applies to the following samples: Method: EPA 625

F44960-2

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	2.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	2.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	5.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	2.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	2.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	2.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	2.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	2.5	ug/l	
206-44-0	Fluoranthene	ND	5.0	1.0	ug/l	
86-73-7	Fluorene	ND	5.0	1.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	1.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	2.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	2.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
78-59-1	Isophorone	ND	5.0	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	1.0	ug/l	
88-74-4	2-Nitroaniline	ND	10	4.0	ug/l	
99-09-2	3-Nitroaniline	ND	10	4.0	ug/l	
100-01-6	4-Nitroaniline	ND	10	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	1.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	2.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	1.0	ug/l	
129-00-0	Pyrene	ND	5.0	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	30%	19-90%
4165-62-2	Phenol-d5	18%	10-68%

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18456-MB	R05872.D	1	11/10/06	NJ	11/09/06	OP18456	SR275

The QC reported here applies to the following samples: Method: EPA 625

F44960-2

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	72%	36-137%
4165-60-0	Nitrobenzene-d5	65%	49-119%
321-60-8	2-Fluorobiphenyl	63%	45-118%
1718-51-0	Terphenyl-d14	65%	46-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile [a]		0	ug/l	

(a) No TICs detected.

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18422-BS	R05800.D	1	11/07/06	NJ	11/06/06	OP18422	SR272

The QC reported here applies to the following samples: Method: EPA 625

F44960-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	17.6	18	10-50
95-57-8	2-Chlorophenol	50	35.4	71	57-100
59-50-7	4-Chloro-3-methyl phenol	50	38.3	77	63-105
120-83-2	2,4-Dichlorophenol	50	38.6	77	65-106
105-67-9	2,4-Dimethylphenol	50	29.8	60	49-90
51-28-5	2,4-Dinitrophenol	100	75.0	75	26-125
534-52-1	4,6-Dinitro-o-cresol	100	83.3	83	56-121
95-48-7	2-Methylphenol	50	30.4	61	48-90
	3&4-Methylphenol	100	59.0	59	43-94
88-75-5	2-Nitrophenol	50	36.8	74	62-107
100-02-7	4-Nitrophenol	100	32.1	32	19-66
87-86-5	Pentachlorophenol	100	83.7	84	62-120
108-95-2	Phenol	50	17.4	35	20-65
95-95-4	2,4,5-Trichlorophenol	50	38.9	78	67-103
88-06-2	2,4,6-Trichlorophenol	50	38.7	77	68-104
83-32-9	Acenaphthene	50	40.1	80	67-101
208-96-8	Acenaphthylene	50	39.2	78	65-100
120-12-7	Anthracene	50	41.5	83	71-103
56-55-3	Benzo(a)anthracene	50	35.5	71	71-105
50-32-8	Benzo(a)pyrene	50	40.5	81	67-106
205-99-2	Benzo(b)fluoranthene	50	40.8	82	68-108
191-24-2	Benzo(g,h,i)perylene	50	40.6	81	65-110
207-08-9	Benzo(k)fluoranthene	50	41.7	83	69-110
101-55-3	4-Bromophenyl phenyl ether	50	40.9	82	71-106
85-68-7	Butyl benzyl phthalate	50	35.1	70	66-110
100-51-6	Benzyl Alcohol	50	34.5	69	36-101
91-58-7	2-Chloronaphthalene	50	37.9	76	62-99
106-47-8	4-Chloroaniline	50	38.5	77	58-101
86-74-8	Carbazole	50	40.7	81	73-106
218-01-9	Chrysene	50	36.5	73	71-105
111-91-1	bis(2-Chloroethoxy)methane	50	34.4	69	56-101
111-44-4	bis(2-Chloroethyl)ether	50	37.5	75	60-108
108-60-1	bis(2-Chloroisopropyl)ether	50	34.1	68	49-108
7005-72-3	4-Chlorophenyl phenyl ether	50	39.6	79	69-106
95-50-1	1,2-Dichlorobenzene	50	37.0	74	48-98
541-73-1	1,3-Dichlorobenzene	50	37.3	75	44-95

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18422-BS	R05800.D	1	11/07/06	NJ	11/06/06	OP18422	SR272

The QC reported here applies to the following samples: Method: EPA 625

F44960-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	50	37.0	74	46-96
121-14-2	2,4-Dinitrotoluene	50	39.5	79	64-107
606-20-2	2,6-Dinitrotoluene	50	37.8	76	64-102
91-94-1	3,3'-Dichlorobenzidine	50	34.3	69	54-109
53-70-3	Dibenzo(a,h)anthracene	50	40.4	81	61-112
132-64-9	Dibenzofuran	50	38.8	78	70-102
84-74-2	Di-n-butyl phthalate	50	39.5	79	69-109
117-84-0	Di-n-octyl phthalate	50	41.7	83	63-125
84-66-2	Diethyl phthalate	50	39.9	80	66-111
131-11-3	Dimethyl phthalate	50	39.0	78	66-109
117-81-7	bis(2-Ethylhexyl)phthalate	50	36.1	72	66-114
206-44-0	Fluoranthene	50	42.0	84	71-108
86-73-7	Fluorene	50	41.1	82	68-102
118-74-1	Hexachlorobenzene	50	40.2	80	69-103
87-68-3	Hexachlorobutadiene	50	36.4	73	48-100
77-47-4	Hexachlorocyclopentadiene	50	25.5	51	20-85
67-72-1	Hexachloroethane	50	35.7	71	41-98
193-39-5	Indeno(1,2,3-cd)pyrene	50	40.7	81	66-112
78-59-1	Isophorone	50	38.7	77	62-105
91-57-6	2-Methylnaphthalene	50	39.3	79	62-105
88-74-4	2-Nitroaniline	50	39.2	78	66-105
99-09-2	3-Nitroaniline	50	38.7	77	56-104
100-01-6	4-Nitroaniline	50	39.1	78	62-110
91-20-3	Naphthalene	50	37.5	75	56-99
98-95-3	Nitrobenzene	50	37.1	74	60-102
621-64-7	N-Nitroso-di-n-propylamine	50	37.8	76	56-101
86-30-6	N-Nitrosodiphenylamine	50	39.2	78	69-106
85-01-8	Phenanthrene	50	41.0	82	71-104
129-00-0	Pyrene	50	36.5	73	67-108
120-82-1	1,2,4-Trichlorobenzene	50	37.4	75	52-99

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	47%	19-90%
4165-62-2	Phenol-d5	30%	10-68%

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18422-BS	R05800.D	1	11/07/06	NJ	11/06/06	OP18422	SR272

The QC reported here applies to the following samples: Method: EPA 625

F44960-1

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	83%	36-137%
4165-60-0	Nitrobenzene-d5	72%	49-119%
321-60-8	2-Fluorobiphenyl	72%	45-118%
1718-51-0	Terphenyl-d14	72%	46-135%

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18456-BS	L034717.D	1	11/09/06	NJ	11/09/06	OP18456	SL1783

The QC reported here applies to the following samples: Method: EPA 625

F44960-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
65-85-0	Benzoic Acid	100	19.7	20	10-50
95-57-8	2-Chlorophenol	50	37.5	75	57-100
59-50-7	4-Chloro-3-methyl phenol	50	39.3	79	63-105
120-83-2	2,4-Dichlorophenol	50	41.6	83	65-106
105-67-9	2,4-Dimethylphenol	50	32.0	64	49-90
51-28-5	2,4-Dinitrophenol	100	76.2	76	26-125
534-52-1	4,6-Dinitro-o-cresol	100	91.8	92	56-121
95-48-7	2-Methylphenol	50	29.7	59	48-90
	3&4-Methylphenol	100	54.2	54	43-94
88-75-5	2-Nitrophenol	50	40.3	81	62-107
100-02-7	4-Nitrophenol	100	27.8	28	19-66
87-86-5	Pentachlorophenol	100	82.3	82	62-120
108-95-2	Phenol	50	16.0	32	20-65
95-95-4	2,4,5-Trichlorophenol	50	41.0	82	67-103
88-06-2	2,4,6-Trichlorophenol	50	40.9	82	68-104
83-32-9	Acenaphthene	50	40.3	81	67-101
208-96-8	Acenaphthylene	50	40.4	81	65-100
120-12-7	Anthracene	50	42.1	84	71-103
56-55-3	Benzo(a)anthracene	50	41.2	82	71-105
50-32-8	Benzo(a)pyrene	50	41.8	84	67-106
205-99-2	Benzo(b)fluoranthene	50	40.9	82	68-108
191-24-2	Benzo(g,h,i)perylene	50	45.5	91	65-110
207-08-9	Benzo(k)fluoranthene	50	42.8	86	69-110
101-55-3	4-Bromophenyl phenyl ether	50	41.8	84	71-106
85-68-7	Butyl benzyl phthalate	50	41.0	82	66-110
100-51-6	Benzyl Alcohol	50	28.7	57	36-101
91-58-7	2-Chloronaphthalene	50	39.9	80	62-99
106-47-8	4-Chloroaniline	50	37.1	74	58-101
86-74-8	Carbazole	50	41.0	82	73-106
218-01-9	Chrysene	50	42.5	85	71-105
111-91-1	bis(2-Chloroethoxy)methane	50	37.3	75	56-101
111-44-4	bis(2-Chloroethyl)ether	50	39.6	79	60-108
108-60-1	bis(2-Chloroisopropyl)ether	50	36.4	73	49-108
7005-72-3	4-Chlorophenyl phenyl ether	50	40.7	81	69-106
95-50-1	1,2-Dichlorobenzene	50	36.8	74	48-98
541-73-1	1,3-Dichlorobenzene	50	35.8	72	44-95

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18456-BS	L034717.D	1	11/09/06	NJ	11/09/06	OP18456	SL1783

The QC reported here applies to the following samples: Method: EPA 625

F44960-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	50	35.9	72	46-96
121-14-2	2,4-Dinitrotoluene	50	39.8	80	64-107
606-20-2	2,6-Dinitrotoluene	50	38.6	77	64-102
91-94-1	3,3'-Dichlorobenzidine	50	39.5	79	54-109
53-70-3	Dibenzo(a,h)anthracene	50	43.8	88	61-112
132-64-9	Dibenzofuran	50	39.0	78	70-102
84-74-2	Di-n-butyl phthalate	50	40.2	80	69-109
117-84-0	Di-n-octyl phthalate	50	43.0	86	63-125
84-66-2	Diethyl phthalate	50	39.7	79	66-111
131-11-3	Dimethyl phthalate	50	40.4	81	66-109
117-81-7	bis(2-Ethylhexyl)phthalate	50	41.4	83	66-114
206-44-0	Fluoranthene	50	42.8	86	71-108
86-73-7	Fluorene	50	41.0	82	68-102
118-74-1	Hexachlorobenzene	50	39.9	80	69-103
87-68-3	Hexachlorobutadiene	50	36.9	74	48-100
77-47-4	Hexachlorocyclopentadiene	50	33.0	66	20-85
67-72-1	Hexachloroethane	50	35.6	71	41-98
193-39-5	Indeno(1,2,3-cd)pyrene	50	44.2	88	66-112
78-59-1	Isophorone	50	42.0	84	62-105
91-57-6	2-Methylnaphthalene	50	40.6	81	62-105
88-74-4	2-Nitroaniline	50	40.2	80	66-105
99-09-2	3-Nitroaniline	50	37.8	76	56-104
100-01-6	4-Nitroaniline	50	39.8	80	62-110
91-20-3	Naphthalene	50	38.8	78	56-99
98-95-3	Nitrobenzene	50	40.1	80	60-102
621-64-7	N-Nitroso-di-n-propylamine	50	38.2	76	56-101
86-30-6	N-Nitrosodiphenylamine	50	39.2	78	69-106
85-01-8	Phenanthrene	50	41.3	83	71-104
129-00-0	Pyrene	50	43.1	86	67-108
120-82-1	1,2,4-Trichlorobenzene	50	38.6	77	52-99

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	42%	19-90%
4165-62-2	Phenol-d5	24%	10-68%

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18456-BS	L034717.D	1	11/09/06	NJ	11/09/06	OP18456	SL1783

The QC reported here applies to the following samples: Method: EPA 625

F44960-2

CAS No.	Surrogate Recoveries	BSP	Limits
118-79-6	2,4,6-Tribromophenol	83%	36-137%
4165-60-0	Nitrobenzene-d5	76%	49-119%
321-60-8	2-Fluorobiphenyl	75%	45-118%
1718-51-0	Terphenyl-d14	81%	46-135%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18422-MS	R05808.D	1	11/07/06	NJ	11/06/06	OP18422	SR272
OP18422-MSD	R05809.D	1	11/07/06	NJ	11/06/06	OP18422	SR272
F44942-5	R05807.D	1	11/07/06	NJ	11/06/06	OP18422	SR272

The QC reported here applies to the following samples: Method: EPA 625

F44960-1

CAS No.	Compound	F44942-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic Acid	ND		196	53.1	27	58.8	30	10	10-80/45
95-57-8	2-Chlorophenol	ND		98	60.8	62	65.7	67	8	43-109/27
59-50-7	4-Chloro-3-methyl phenol	ND		98	68.6	70	73.1	75	6	57-109/20
120-83-2	2,4-Dichlorophenol	ND		98	64.8	66	70.9	72	9	49-114/23
105-67-9	2,4-Dimethylphenol	ND		98	49.9	51	54.8	56	9	32-103/24
51-28-5	2,4-Dinitrophenol	ND		196	130	66	142	72	9	20-131/28
534-52-1	4,6-Dinitro-o-cresol	ND		196	149	76	162	83	8	46-130/23
95-48-7	2-Methylphenol	ND		98	54.6	56	61.5	63	12	40-102/25
	3&4-Methylphenol	ND		196	115	59	126	64	9	39-97/24
88-75-5	2-Nitrophenol	ND		98	62.0	63	67.6	69	9	46-115/26
100-02-7	4-Nitrophenol	ND		196	86.4	44	90.8	46	5	28-81/30
87-86-5	Pentachlorophenol	ND		196	148	75	158	81	7	53-128/22
108-95-2	Phenol	ND		98	41.5	42	43.8	45	5	19-81/33
95-95-4	2,4,5-Trichlorophenol	ND		98	66.0	67	71.0	72	7	56-110/19
88-06-2	2,4,6-Trichlorophenol	ND		98	66.5	68	70.7	72	6	55-112/19
83-32-9	Acenaphthene	ND		98	70.1	72	74.9	76	7	58-109/18
208-96-8	Acenaphthylene	ND		98	68.4	70	72.9	74	6	59-103/18
120-12-7	Anthracene	ND		98	75.9	77	79.2	81	4	65-108/16
56-55-3	Benzo(a)anthracene	ND		98	63.9	65*	68.5	70	7	68-106/17
50-32-8	Benzo(a)pyrene	ND		98	72.2	74	77.5	79	7	61-108/18
205-99-2	Benzo(b)fluoranthene	ND		98	73.6	75	78.3	80	6	65-109/18
191-24-2	Benzo(g,h,i)perylene	ND		98	73.5	75	77.0	79	5	60-114/19
207-08-9	Benzo(k)fluoranthene	ND		98	76.1	78	82.0	84	7	66-111/17
101-55-3	4-Bromophenyl phenyl ether	ND		98	71.9	73	77.8	79	8	68-108/17
85-68-7	Butyl benzyl phthalate	ND		98	61.6	63*	66.6	68	8	64-111/18
100-51-6	Benzyl Alcohol	ND		98	60.9	62	68.6	70	12	44-105/26
91-58-7	2-Chloronaphthalene	ND		98	66.0	67	70.6	72	7	57-102/20
106-47-8	4-Chloroaniline	ND		98	60.4	62	63.7	65	5	37-106/27
86-74-8	Carbazole	ND		98	73.9	75	77.7	79	5	68-111/16
218-01-9	Chrysene	ND		98	66.9	68*	71.6	73	7	69-106/17
111-91-1	bis(2-Chloroethoxy)methane	ND		98	58.3	59	62.9	64	8	46-106/24
111-44-4	bis(2-Chloroethyl)ether	ND		98	63.4	65	68.3	70	7	48-114/28
108-60-1	bis(2-Chloroisopropyl)ether	ND		98	57.5	59	63.1	64	9	43-110/26
7005-72-3	4-Chlorophenyl phenyl ether	ND		98	70.8	72	77.0	79	8	66-107/17
95-50-1	1,2-Dichlorobenzene	ND		98	64.0	65	70.0	71	9	45-103/24
541-73-1	1,3-Dichlorobenzene	ND		98	62.2	63	68.6	70	10	42-100/24

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18422-MS	R05808.D	1	11/07/06	NJ	11/06/06	OP18422	SR272
OP18422-MSD	R05809.D	1	11/07/06	NJ	11/06/06	OP18422	SR272
F44942-5	R05807.D	1	11/07/06	NJ	11/06/06	OP18422	SR272

The QC reported here applies to the following samples: Method: EPA 625

F44960-1

CAS No.	Compound	F44942-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
106-46-7	1,4-Dichlorobenzene	ND		98	63.1	64	69.9	71	10	43-102/24
121-14-2	2,4-Dinitrotoluene	ND		98	70.9	72	75.2	77	6	60-108/18
606-20-2	2,6-Dinitrotoluene	ND		98	67.3	69	71.9	73	7	59-105/18
91-94-1	3,3'-Dichlorobenzidine	ND		98	56.6	58	59.3	60	5	21-120/24
53-70-3	Dibenzo(a,h)anthracene	ND		98	73.1	75	77.5	79	6	59-112/18
132-64-9	Dibenzofuran	ND		98	68.7	70	73.0	74	6	65-105/17
84-74-2	Di-n-butyl phthalate	ND		98	70.1	72	75.2	77	7	68-109/18
117-84-0	Di-n-octyl phthalate	ND		98	71.5	73	77.3	79	8	59-127/23
84-66-2	Diethyl phthalate	ND		98	71.1	73	77.1	79	8	64-111/18
131-11-3	Dimethyl phthalate	ND		98	69.6	71	76.0	78	9	63-109/17
117-81-7	bis(2-Ethylhexyl)phthalate	ND		98	62.3	64	67.1	68	7	58-119/21
206-44-0	Fluoranthene	ND		98	76.3	78	81.5	83	7	68-110/18
86-73-7	Fluorene	ND		98	72.4	74	77.4	79	7	62-106/17
118-74-1	Hexachlorobenzene	ND		98	72.4	74	77.4	79	7	66-106/16
87-68-3	Hexachlorobutadiene	ND		98	62.0	63	68.0	69	9	46-107/26
77-47-4	Hexachlorocyclopentadiene	ND		98	43.7	45	46.9	48	7	16-84/31
67-72-1	Hexachloroethane	ND		98	60.6	62	67.6	69	11	39-105/25
193-39-5	Indeno(1,2,3-cd)pyrene	ND		98	73.2	75	77.5	79	6	61-115/19
78-59-1	Isophorone	ND		98	65.8	67	71.8	73	9	54-107/22
91-57-6	2-Methylnaphthalene	ND		98	68.6	70	73.3	75	7	53-112/22
88-74-4	2-Nitroaniline	ND		98	69.5	71	73.5	75	6	60-108/18
99-09-2	3-Nitroaniline	ND		98	64.5	66	68.6	70	6	43-103/23
100-01-6	4-Nitroaniline	ND		98	69.1	70	75.2	77	8	55-110/19
91-20-3	Naphthalene	ND		98	64.9	66	69.7	71	7	49-104/24
98-95-3	Nitrobenzene	ND		98	62.9	64	68.2	70	8	50-107/25
621-64-7	N-Nitroso-di-n-propylamine	ND		98	63.7	65	68.5	70	7	47-104/23
86-30-6	N-Nitrosodiphenylamine	ND		98	70.0	71	74.0	75	6	63-110/17
85-01-8	Phenanthrene	ND		98	75.0	77	79.2	81	5	67-108/17
129-00-0	Pyrene	ND		98	66.3	68	69.4	71	5	65-108/18
120-82-1	1,2,4-Trichlorobenzene	ND		98	63.8	65	68.9	70	8	49-104/25

CAS No.	Surrogate Recoveries	MS	MSD	F44942-5	Limits
367-12-4	2-Fluorophenol	50%	56%	43%	19-90%
4165-62-2	Phenol-d5	40%	41%	26%	10-68%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18422-MS	R05808.D	1	11/07/06	NJ	11/06/06	OP18422	SR272
OP18422-MSD	R05809.D	1	11/07/06	NJ	11/06/06	OP18422	SR272
F44942-5	R05807.D	1	11/07/06	NJ	11/06/06	OP18422	SR272

The QC reported here applies to the following samples: Method: EPA 625

F44960-1

CAS No.	Surrogate Recoveries	MS	MSD	F44942-5	Limits
118-79-6	2,4,6-Tribromophenol	75%	81%	73%	36-137%
4165-60-0	Nitrobenzene-d5	63%	68%	67%	49-119%
321-60-8	2-Fluorobiphenyl	63%	67%	68%	45-118%
1718-51-0	Terphenyl-d14	65%	70%	68%	46-135%

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ771-MB	QQ020042.D	1	11/08/06	AF	n/a	n/a	GQQ771

The QC reported here applies to the following samples: Method: EPA 601/602

F44960-1, F44960-2, F44960-3

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

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	95%	71-130%
98-08-8	aaa-Trifluorotoluene	94%	71-124%

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV1421-MB	UV024760.D	1	11/07/06	MM	n/a	n/a	GUV1421

The QC reported here applies to the following samples: Method: MADEP VPH

F44960-1, F44960-2

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

CAS No.	Surrogate Recoveries		Limits
460-00-4	BFB	79%	70-130%
460-00-4	BFB	77%	70-130%

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD3012-MB	CD072801.D	1	11/09/06	MM	n/a	n/a	GCD3012

The QC reported here applies to the following samples: Method: SW846 8015

F44960-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	88%	65-127%
98-08-8	aaa-Trifluorotoluene	84%	65-124%

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD3014-MB	CD072828.D	1	11/10/06	MM	n/a	n/a	GCD3014

The QC reported here applies to the following samples: Method: SW846 8015

F44960-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	86%	65-127%
98-08-8	aaa-Trifluorotoluene	84%	65-124%

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQQ771-BS	QQ020041.D	1	11/08/06	AF	n/a	n/a	GQQ771

The QC reported here applies to the following samples: Method: EPA 601/602

F44960-1, F44960-2, F44960-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.4	97	81-121
108-90-7	Chlorobenzene	20	19.3	97	76-120
95-50-1	1,2-Dichlorobenzene	20	18.9	95	63-127
541-73-1	1,3-Dichlorobenzene	20	19.4	97	70-124
106-46-7	1,4-Dichlorobenzene	20	19.5	98	68-121
100-41-4	Ethylbenzene	20	19.3	97	79-124
1634-04-4	Methyl Tert Butyl Ether	20	18.6	93	73-118
108-88-3	Toluene	20	19.3	97	79-122
1330-20-7	Xylenes (total)	60	57.5	96	79-121

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	101%	71-130%
98-08-8	aaa-Trifluorotoluene	96%	71-124%

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV1421-BS	UV024759.D	1	11/07/06	MM	n/a	n/a	GUV1421

The QC reported here applies to the following samples: Method: MADEP VPH

F44960-1, F44960-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
	C5- C8 Aliphatics (Unadj.)	480	556	116	70-130
	C9- C12 Aliphatics (Unadj.)	480	516	108	70-130
	C9- C10 Aromatics (Unadj.)	80	80.4	101	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	BFB	104%	70-130%
460-00-4	BFB	98%	70-130%

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD3012-BS	CD072800.D	1	11/09/06	MM	n/a	n/a	GCD3012

The QC reported here applies to the following samples: Method: SW846 8015

F44960-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.441	110	66-122

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	97%	62-135%
98-08-8	aaa-Trifluorotoluene	97%	65-118%

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD3014-BS	CD072827.D	1	11/10/06	MM	n/a	n/a	GCD3014

The QC reported here applies to the following samples: Method: SW846 8015

F44960-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.434	109	63-126

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	103%	65-127%
98-08-8	aaa-Trifluorotoluene	95%	65-124%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44942-2MS	QQ020050.D	1	11/08/06	AF	n/a	n/a	GQQ771
F44942-2MSD	QQ020051.D	1	11/08/06	AF	n/a	n/a	GQQ771
F44942-2	QQ020045.D	1	11/08/06	AF	n/a	n/a	GQQ771

The QC reported here applies to the following samples: Method: EPA 601/602

F44960-1, F44960-2, F44960-3

CAS No.	Compound	F44942-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	18.7	94	18.7	94	0	74-126/11
108-90-7	Chlorobenzene	ND		20	18.6	93	18.8	94	1	72-124/8
95-50-1	1,2-Dichlorobenzene	ND		20	19.7	99	19.9	100	1	55-136/13
541-73-1	1,3-Dichlorobenzene	ND		20	18.7	94	18.9	95	1	65-132/16
106-46-7	1,4-Dichlorobenzene	ND		20	18.6	93	18.8	94	1	61-133/11
100-41-4	Ethylbenzene	ND		20	18.4	92	18.5	93	1	71-131/8
1634-04-4	Methyl Tert Butyl Ether	ND		20	18.2	91	17.7	89	3	63-130/11
108-88-3	Toluene	ND		20	18.7	94	18.8	94	1	69-132/7
1330-20-7	Xylenes (total)	ND		60	54.7	91	55.1	92	1	71-127/8

CAS No.	Surrogate Recoveries	MS	MSD	F44942-2	Limits
460-00-4	4-Bromofluorobenzene	100%	105%	97%	71-130%
98-08-8	aaa-Trifluorotoluene	94%	98%	94%	71-124%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44942-4MS	UV024774.D	1	11/07/06	MM	n/a	n/a	GUV1421
F44942-4MSD	UV024775.D	1	11/07/06	MM	n/a	n/a	GUV1421
F44942-4	UV024766.D	1	11/07/06	MM	n/a	n/a	GUV1421

The QC reported here applies to the following samples: Method: MADEP VPH

F44960-1, F44960-2

CAS No.	Compound	F44942-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	ND		480	481	100	496	103	3	70-130/50
	C9- C12 Aliphatics (Unadj.)	ND		480	454	95	470	98	3	70-130/50
	C9- C10 Aromatics (Unadj.)	ND		80	77.4	97	78.8	99	2	70-130/50

CAS No.	Surrogate Recoveries	MS	MSD	F44942-4	Limits
460-00-4	BFB	87%	87%	76%	70-130%
460-00-4	BFB	85%	86%	75%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45045-2MS	CD072813.D	1	11/09/06	MM	n/a	n/a	GCD3012
F45045-2MSD	CD072814.D	1	11/09/06	MM	n/a	n/a	GCD3012
F45045-2	CD072807.D	1	11/09/06	MM	n/a	n/a	GCD3012

The QC reported here applies to the following samples: Method: SW846 8015

F44960-2

CAS No.	Compound	F45045-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		0.4	0.422	106	0.423	106	0	56-171/31

CAS No.	Surrogate Recoveries	MS	MSD	F45045-2	Limits
460-00-4	4-Bromofluorobenzene	98%	102%	92%	65-127%
98-08-8	aaa-Trifluorotoluene	95%	95%	82%	65-124%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F45073-1MS	CD072833.D	1	11/10/06	MM	n/a	n/a	GCD3014
F45073-1MSD	CD072834.D	1	11/10/06	MM	n/a	n/a	GCD3014
F45073-1	CD072830.D	1	11/10/06	MM	n/a	n/a	GCD3014

The QC reported here applies to the following samples: Method: SW846 8015

F44960-1

CAS No.	Compound	F45073-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		0.4	0.417	104	0.395	99	5	56-171/31

CAS No.	Surrogate Recoveries	MS	MSD	F45073-1	Limits
460-00-4	4-Bromofluorobenzene	95%	94%	87%	65-127%
98-08-8	aaa-Trifluorotoluene	95%	95%	84%	65-124%

Duplicate Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44942-5DUP	UV024781.D	1	11/07/06	MM	n/a	n/a	GUV1421
F44942-5	UV024771.D	1	11/07/06	MM	n/a	n/a	GUV1421

The QC reported here applies to the following samples: Method: MADEP VPH

F44960-1, F44960-2

CAS No.	Compound	F44942-5 ug/l	Q	DUP ug/l	Q	RPD	Limits
	C5- C8 Aliphatics (Unadj.)	ND		ND		nc	
	C9- C12 Aliphatics (Unadj.)	ND		ND		nc	
	C9- C10 Aromatics (Unadj.)	ND		ND		nc	

CAS No.	Surrogate Recoveries	DUP	F44942-5	Limits
460-00-4	BFB	71%	75%	70-130%
460-00-4	BFB	72%	74%	70-130%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18419-MB	ZF22161.D	1	11/06/06	ME	11/06/06	OP18419	GZF1031

The QC reported here applies to the following samples: Method: SW846 8015 M

F44960-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	86%	44-123%

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18419-MB	LL13396.D	1	11/07/06	SKW	11/06/06	OP18419	GLL497

The QC reported here applies to the following samples: Method: SW846 8015 M

F44960-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	81%	44-123%

Method Blank Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18455-MB	LL13445.D	1	11/09/06	ME	11/09/06	OP18455	GLL499

The QC reported here applies to the following samples: Method: SW846 8015 M

F44960-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	0.25	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	96%	44-123%

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18419-BS	ZF22160.D	1	11/06/06	ME	11/06/06	OP18419	GZF1031

The QC reported here applies to the following samples: Method: SW846 8015 M

F44960-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C28)	1	0.954	95	57-116

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	98%	44-123%

Blank Spike Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18455-BS	LL13444.D	1	11/09/06	ME	11/09/06	OP18455	GLL499

The QC reported here applies to the following samples: Method: SW846 8015 M

F44960-2

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C28)	1	0.884	88	57-116

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	89%	44-123%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18419-MS	LL13398.D	1	11/07/06	SKW	11/06/06	OP18419	GLL497
OP18419-MSD	LL13399.D	1	11/07/06	SKW	11/06/06	OP18419	GLL497
F44960-1	LL13397.D	1	11/07/06	SKW	11/06/06	OP18419	GLL497

The QC reported here applies to the following samples: Method: SW846 8015 M

F44960-1

CAS No.	Compound	F44960-1 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	0.353		1.92	1.87	79	1.86	78	1	41-146/29

CAS No.	Surrogate Recoveries	MS	MSD	F44960-1	Limits
84-15-1	o-Terphenyl	79%	74%	74%	44-123%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44960
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18455-MS	LL13447.D	4	11/09/06	ME	11/09/06	OP18455	GLL499
OP18455-MSD	LL13448.D	4	11/09/06	ME	11/09/06	OP18455	GLL499
F44960-2	LL13446.D	4	11/09/06	ME	11/09/06	OP18455	GLL499

The QC reported here applies to the following samples: Method: SW846 8015 M

F44960-2

CAS No.	Compound	F44960-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	5.50		1.92	6.36	45	6.61	58	4	41-146/29

CAS No.	Surrogate Recoveries	MS	MSD	F44960-2	Limits
84-15-1	o-Terphenyl	83%	84%	86%	44-123%

COC Number:
109972-TT-110106

Shaw Environmental & Infrastructure, Inc.

P44960

CHAIN-OF-CUSTODY RECORD

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

Receiving LAB:Accutest

Project Name	Project Location		
CAMP LEJEUNE -TT	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
109972	Mark Martin		
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	602 with Xyenes	625	MADEP EPH	MADEP VPH	DRO/GRO									
								Analysis Desired													
1	TT-TW-001	11/2/06	15:00		X	Tank 1 Temp Well	10	X	X	X	X	X									
2	TT-TW-002	11/2/06	16:30		X	Tank 3 Temp Well	10	X	X	X	X	X									
3	TT Trip Blank	11/2/06			X	Trip Blank	2	X													
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	1 -- 3		UPS 1Z71V 098 13 9462 5264	11/2/06	1830 ~~16:00~~
2		UPS		11/3/06	1030
3					

Remarks

7 Day TAT

625 Plus 10 Largest Non-Target Peaks Identified

20

SGS

Mr. Aaron Ben David
Accutest
4405 Vineland Road
Suite C-15
Orlando FL 32811
Report Number: G383-492

Client Project: F44960

Dear Mr. David:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS/Paradigm Analytical Laboratories, Inc.

11/16/2006
Laboratory Director Date
J. Patrick Weaver

SGS

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Accutest

Project Name: F44960

Sample Information and Analytical Results	
Sample Identification	F44960-1
Sample Matrix	Water
Date Collected	11/02/06
Date Received	11/09/06
Date Extracted	11/15/06
Date Analyzed	11/16/06
Dry Weight	
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	< 100 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	53
Aromatic Surrogate % Recovery	41
Fractionation Surrogate 1 % Recovery	41

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G383-492-1B

Reviewed By:

SGS

EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Accutest

Project Name: F44960

Sample Information and Analytical Results	
Sample Identification	F44960-2
Sample Matrix	Water
Date Collected	11/02/06
Date Received	11/09/06
Date Extracted	11/15/06
Date Analyzed	11/16/06
Dry Weight	
Dilution Factor	1:1
C_9-C_{18} Aliphatics*	350 (ug/L)
C_{19}-C_{36} Aliphatics*	< 100 (ug/L)
C_{11}-C_{22} Aromatics*	2400 (ug/L)
Aliphatic Surrogate % Recovery	56
Aromatic Surrogate % Recovery	45
Fractionation Surrogate 1 % Recovery	87

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G383-492-2B

Reviewed By:

SGS

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 10/24/06

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C_9-C_{18} Aliphatics	3.84	12.2	100	10
C_{19}-C_{36} Aliphatics	0.57	1.8	100	10
C_{11}-C_{22} Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C_9-C_{18} Aliphatics	6	1.00	Linear Regression
	30		
	60		
	120		
	240		
C_{19}-C_{36} Aliphatics	8	1.0	Linear Regression
	40		
	80		
	160		
	320		
C_{11}-C_{22} Aromatics	17	0.999	Linear Regression
	85		
	170		
	340		
	680		

Calibration Check Date: 11/16/06

Calibration Check

Range	Levels (µg/mL)	RPD
C_9-C_{18} Aliphatics	120	-8.1
C_{19}-C_{36} Aliphatics	160	8.2
C_{11}-C_{22} Aromatics	340	4.3

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit
RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve

SGS

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% soilds = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.

MI34.030606.3

CHAIN OF CUSTODY

ACCUTEST Laboratories
4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

G383-492

ACCUTEST JOB #:

ACCUTEST QUOTE #:

9 of 9

CLIENT INFORMATION

NAME: Accutest Southeast

ADDRESS:

CITY, STATE, ZIP:

SEND REPORT TO:

PHONE #:

FACILITY INFORMATION

PROJECT NAME: F44960

LOCATION:

PROJECT NO.:

FAX #:

ANALYTICAL INFORMATION

pH #4

MATRIX CODES

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

LAB USE ONLY

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	NaOH	HNO3	H2SO4	NONE	pH #4
	F44960-1	11/2/06	15:00		W	1				X		X
	-2	↓	16:30		W	1				X		X

DATA TURNAROUND INFORMATION

- ☐ STANDARD
- ☐ 48 HOUR RUSH
- ☐ 24 HOUR EMERGENCY
- ☒ OTHER 7 Day

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- ☒ STANDARD
- ☐ COMMERCIAL "B"
- ☐ DISK DELIVERABLE
- ☐ STATE FORMS
- ☐ OTHER (SPECIFY)

COMMENTS/REMARKS

Paradigm Analytical

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESION, INCLUDING COURIER DELIVERY

RELINQUISHED BY: SAMPLER	DATE TIME	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	11/5/06 1630	1.	2.		2.
3.	11/9/06 1000	3. Amy DeLaney	4.		4.
5.		5.	SEAL # NA	PRESERVE WHERE APPLICABLE ☐	ON ICE ☒ TEMPERATURE 3.6 C

SGS ENVIRONMENTAL SERVICES, INC.

NC CERTIFICATION #48

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-TT-49

109972

Accutest Job Number: F44260

Sampling Date: 10/05/06

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

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

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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.

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Accutest Laboratories

Sample Summary

Shaw E & I, Inc.

Job No: F44260

Camp Lejeune-TT-49
Project No: 109972

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F44260-1	10/05/06	17:00	MM	10/06/06	SO	Soil	TT-012

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-012		
Lab Sample ID:	F44260-1	Date Sampled:	10/05/06
Matrix:	SO - Soil	Date Received:	10/06/06
Method:	SW846 8015 SW846 5030A	Percent Solids:	81.4
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	HH023437.D	1	10/10/06	AB	10/06/06 15:10	n/a	GHH1063
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.99 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	23.6	7.3	3.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	116% [b]		62-135%
460-00-4	4-Bromofluorobenzene	143%		62-135%
98-08-8	aaa-Trifluorotoluene	93%		65-118%

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.
(b) Outside control limits due to matrix interference.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-012		
Lab Sample ID:	F44260-1	Date Sampled:	10/05/06
Matrix:	SO - Soil	Date Received:	10/06/06
Method:	SW846 8015 M SW846 3550B	Percent Solids:	81.4
Project:	Camp Lejeune-TT-49		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IJ34664.D	25	10/11/06	AC	10/10/06	OP18118	GIJ1491
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1120	250	150	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		57-115%

(a) Outside control limits due to dilution.

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TT-012		
Lab Sample ID:	F44260-1	Date Sampled:	10/05/06
Matrix:	SO - Soil	Date Received:	10/06/06
		Percent Solids:	81.4
Project:	Camp Lejeune-TT-49		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.0028 U	D004	5.0	0.010	0.0028	mg/l	1	10/10/06	10/11/06	RS	SW846 6010B [1]
Barium	0.20 U	D005	100	1.0	0.20	mg/l	1	10/10/06	10/11/06	RS	SW846 6010B [1]
Cadmium	0.00030 U	D006	1.0	0.0050	0.00030	mg/l	1	10/10/06	10/11/06	RS	SW846 6010B [1]
Chromium	0.0012 B	D007	5.0	0.010	0.00060	mg/l	1	10/10/06	10/11/06	RS	SW846 6010B [1]
Lead	0.0091 B	D008	5.0	0.050	0.0017	mg/l	1	10/10/06	10/11/06	RS	SW846 6010B [1]
Mercury	0.0010 U	D009	0.20	0.010	0.0010	mg/l	1	10/11/06	10/11/06	MS	SW846 7470A [2]
Selenium	0.020 U	D010	1.0	0.050	0.020	mg/l	1	10/10/06	10/11/06	RS	SW846 6010B [1]
Silver	0.00090 U	D011	5.0	0.010	0.00090	mg/l	1	10/10/06	10/11/06	RS	SW846 6010B [1]

(1) Instrument QC Batch: MA5277
(2) Instrument QC Batch: MA5278
(3) Prep QC Batch: MP10473
(4) Prep QC Batch: MP10478

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

COC Number:
109972-TT-100506

F44260

Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

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

Receiving LAB:Accutest

Project Name	Project Location		
CAMP LEJEUNE -TT	CAMP LEJEUNE, NC		
Project Number	**Contact**	**P.O. Number**	**Reviewed by**
109972	Mark Martin		
Client Rep	**Project Manager**		
US NAVY - LANTDIV	Ron Kenyon		

Analysis Desired

Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers	DRO/GRO 3550/5030/8015	TCLP Metals
1	TT-012	10/5/06	17:00		X	Stockpile	2	X	X
2									
3									
4									
5									
6									
7									
8									
9									
10									

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1	[signature]	FedEx 8574 8740 2626	10/5/06	16:00	7 DAY TAT
2		[signature]	[signature]	10/6/06	9:00	
3						

1.6

F44260: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44260 CLIENT: Shaw PROJECT: Camp Lejeune

DATE/TIME RECEIVED: 10/6/06 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.6

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

AIRBILL NUMBERS: 855748740 2626

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

SAMPLE INFORMATION

- [ ] SAMPLE LABELS 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)

MISC. INFORMATION

NUMBER OF ENCORES ? 1

NUMBER OF 5035 FIELD KITS ? 2

NUMBER OR LAB FILTERED METALS ? 2

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] 10/6/06 TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

3.1 C

F44260: Chain of Custody
Page 2 of 2

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44260
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GHH1063-MB	HH023434.D	1	10/10/06	AB	n/a	n/a	GHH1063

The QC reported here applies to the following samples: Method: SW846 8015

F44260-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	90%	62-135%
98-08-8	aaa-Trifluorotoluene	89%	65-118%

Blank Spike Summary

Job Number: F44260
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GHH1063-BS	HH023433.D	1	10/10/06	AB	n/a	n/a	GHH1063

The QC reported here applies to the following samples: Method: SW846 8015

F44260-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	23.7	119	66-122

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	103%	62-135%
98-08-8	aaa-Trifluorotoluene	96%	65-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44260
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44261-13MS	HH023459.D	1	10/11/06	AB	n/a	n/a	GHH1063
F44261-13MSD	HH023460.D	1	10/11/06	AB	n/a	n/a	GHH1063
F44261-13	HH023452.D	1	10/10/06	AB	n/a	n/a	GHH1063

The QC reported here applies to the following samples: Method: SW846 8015

F44260-1

CAS No.	Compound	F44261-13 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		22.1	23.5	107	23.9	108	2	37-142/17

CAS No.	Surrogate Recoveries	MS	MSD	F44261-13	Limits
460-00-4	4-Bromofluorobenzene	101%	99%	89%	62-135%
98-08-8	aaa-Trifluorotoluene	98%	95%	88%	65-118%

GC Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44260
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18118-MB	IJ34638.D	1	10/11/06	AC	10/10/06	OP18118	GIJ1491

The QC reported here applies to the following samples: Method: SW846 8015 M

F44260-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	8.3	5.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	93%	57-115%

Blank Spike Summary

Job Number: F44260
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18118-BS	IJ34637.D	1	10/11/06	AC	10/10/06	OP18118	GIJ1491

The QC reported here applies to the following samples: Method: SW846 8015 M

F44260-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	28.7	86	62-114

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	93%	57-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44260
Account: ITVAVAB Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18118-MS	IJ34645.D	1	10/11/06	AC	10/10/06	OP18118	GIJ1491
OP18118-MSD	IJ34646.D	1	10/11/06	AC	10/10/06	OP18118	GIJ1491
F44261-5	IJ34644.D	1	10/11/06	AC	10/10/06	OP18118	GIJ1491

The QC reported here applies to the following samples: Method: SW846 8015 M

F44260-1

CAS No.	Compound	F44261-5 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	12.8		34.6	36.4	68	31.2	53	15	31-136/36

CAS No.	Surrogate Recoveries	MS	MSD	F44261-5	Limits
84-15-1	o-Terphenyl	91%	91%	89%	57-115%

Metals Analysis

QC Data Summaries

Includes the following where applicable:

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F44260
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

QC Batch ID: MP10473
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date:				10/10/06		10/10/06
Metal	RL	IDL	MB raw	final	MB raw	final
Aluminum	0.20	.018				
Antimony	0.0060	.0034				
Arsenic	0.010	.0028	0.00033	<0.010	-0.0019	<0.010
Barium	1.0	.0004	0.000030	<1.0	0.00023	<1.0
Beryllium	0.0050	.0004				
Cadmium	0.0050	.0002	-0.00016	<0.0050	-0.00032	<0.0050
Calcium	5.0	.042				
Chromium	0.010	.0006	0.0	<0.010	0.0022	<0.010
Cobalt	0.050	.0006				
Copper	0.025	.0009				
Iron	0.30	.012				
Lead	0.050	.0017	0.00041	<0.050	0.0013	<0.050
Magnesium	5.0	.0043				
Manganese	0.015	.0006				
Molybdenum	0.050	.0013				
Nickel	0.040	.0008				
Potassium	10	.01				
Selenium	0.050	.002	-0.00030	<0.050	0.016	<0.050
Silver	0.010	.0009	0.00041	<0.010	0.00010	<0.010
Sodium	10	.5				
Thallium	0.010	.0023				
Tin	0.050	.0031				
Vanadium	0.050	.0006				
Zinc	0.10	.0013				

Associated samples MP10473: F44260-1

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44260
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

QC Batch ID: MP10473
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date:			10/10/06					10/10/06	
Metal	F44225-1 Original	DUP	RPD	QC Limits	F44225-1 Original	MS	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic	0.0	0.0	NC	0-20	0.0	2.0	2.0	100.0	80-120
Barium	0.30	0.31	3.3	0-20	0.30	2.4	2.0	105.0	80-120
Beryllium									
Cadmium	0.0023	0.0023	0.0	0-20	0.0023	0.049	0.050	93.4	80-120
Calcium									
Chromium	0.11	0.12	8.7	0-20	0.11	0.31	0.20	100.0	80-120
Cobalt									
Copper									
Iron									
Lead	0.0	0.0	NC	0-20	0.0	0.49	0.50	98.0	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium	0.0062	0.0072	14.9	0-20	0.0062	2.1	2.0	104.7	80-120
Silver	0.0011	0.0	200.0(a)	0-20	0.0011	0.057	0.050	111.8	80-120
Sodium									
Thallium									
Tin									
Vanadium									
Zinc									

Associated samples MP10473: F44260-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44260
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

QC Batch ID: MP10473
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date: 10/10/06

Metal	F44225-1 Original	MSD	Spikelot MPFLICP1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	2.0	2.0	100.0	0.0	20
Barium	0.30	2.4	2.0	105.0	0.0	20
Beryllium						
Cadmium	0.0023	0.049	0.050	93.4	0.0	20
Calcium						
Chromium	0.11	0.31	0.20	100.0	0.0	20
Cobalt						
Copper						
Iron						
Lead	0.0	0.49	0.50	98.0	0.0	20
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.0062	2.1	2.0	104.7	0.0	20
Silver	0.0011	0.057	0.050	111.8	0.0	20
Sodium						
Thallium						
Tin						
Vanadium						
Zinc						

Associated samples MP10473: F44260-1

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F44260
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

QC Batch ID: MP10473
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: mg/l

Prep Date:		10/10/06				10/10/06	
Metal	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits	BSP Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum								
Antimony								
Arsenic	2.0	2.0	100.0	80-120	2.0	2.0	100.0	80-120
Barium	2.0	2.0	100.0	80-120	2.0	2.0	100.0	80-120
Beryllium								
Cadmium	0.051	0.050	102.0	80-120	0.050	0.050	100.0	80-120
Calcium								
Chromium	0.21	0.20	105.0	80-120	0.21	0.20	105.0	80-120
Cobalt								
Copper								
Iron								
Lead	0.50	0.50	100.0	80-120	0.51	0.50	102.0	80-120
Magnesium								
Manganese								
Molybdenum								
Nickel								
Potassium								
Selenium	2.0	2.0	100.0	80-120	2.1	2.0	105.0	80-120
Silver	0.051	0.050	102.0	80-120	0.056	0.050	112.0	80-120
Sodium								
Thallium								
Tin								
Vanadium								
Zinc								

Associated samples MP10473: F44260-1

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: F44260
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

QC Batch ID: MP10473
Matrix Type: LEACHATE

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/10/06

Metal	F44225-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	304	294	3.2	0-10
Beryllium				
Cadmium	2.32	1.17	49.6 (a)	0-10
Calcium				
Chromium	112	119	5.6	0-10
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	6.20	0.00	100.0(a)	0-10
Silver	1.13	0.00	100.0(a)	0-10
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP10473: F44260-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F44260
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

QC Batch ID: MP10478
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date:			10/11/06		10/11/06		10/11/06	
Metal	RL	IDL	MB raw	final	MB raw	final	MB raw	final
Mercury	0.0010	.00008	-0.000055	<0.0010	-0.00023	<0.010	-0.00088	<0.010

Associated samples MP10478: F44260-1

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

6.2.1

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44260
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

QC Batch ID: MP10478
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/11/06 10/11/06

Metal	F44225-1 Original	DUP	RPD	QC Limits	F44225-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-20	0.0	0.031	0.030	103.3	80-120

Associated samples MP10478: F44260-1

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

6.2.2

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44260
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

QC Batch ID: MP10478
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/11/06 10/11/06

Metal	F44225-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit	Original DUP	RPD	QC Limits
Mercury	0.0	0.030	0.030	100.0	3.3	20			

Associated samples MP10478: F44260-1

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

6.2.2

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F44260
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

QC Batch ID: MP10478
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/11/06

Metal	F44312-1A Original	DUP	RPD	QC Limits
Mercury	0.0	0.0	NC	0-20

Associated samples MP10478: F44260-1

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

6.2.2

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F44260
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

QC Batch ID: MP10478
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date:		10/11/06				10/11/06		
Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0031	0.0030	103.3	80-120	0.030	0.030	100.0	80-120

Associated samples MP10478: F44260-1

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

6.2.3

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F44260
Account: ITVAVAB - Shaw E & I, Inc.
Project: Camp Lejeune-TT-49

QC Batch ID: MP10478
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 10/11/06

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.028	0.030	93.3	80-120

Associated samples MP10478: F44260-1

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

6.2.3

APPENDIX E

PHOTOGRAPHS of UST CLOSURE ACTIVITIES

Photos: 1A / 1B	**SHAW ENVIRONMENTAL, Inc.** **Photographic Record**	Project No. 109972

Client:
MCB Camp Lejeune

Facility:
Former Tarawa Terrace School (Bldg TT-48)
(Tank #1)

Date:
October 3, 2006

View:
West

Comments:
TT-48 Tank #1 Exposed



Client:
MCB Camp Lejeune

Facility:
Former Tarawa Terrace School (Bldg TT-48)
(Tank #1)

Date:
October 3, 2006

View:
West

Comments:
Soil below TT-48 Tank #1



Photos: 2A / 2B	**SHAW ENVIRONMENTAL, Inc.** **Photographic Record**	Project No. 109972

Client:
MCB Camp Lejeune

Facility:
Former Tarawa Terrace School (Bldg TT-48)
(Tank #1)

Date:
October 3, 2006

View:
East

Comments:
TT-48 Tank #1 Removed



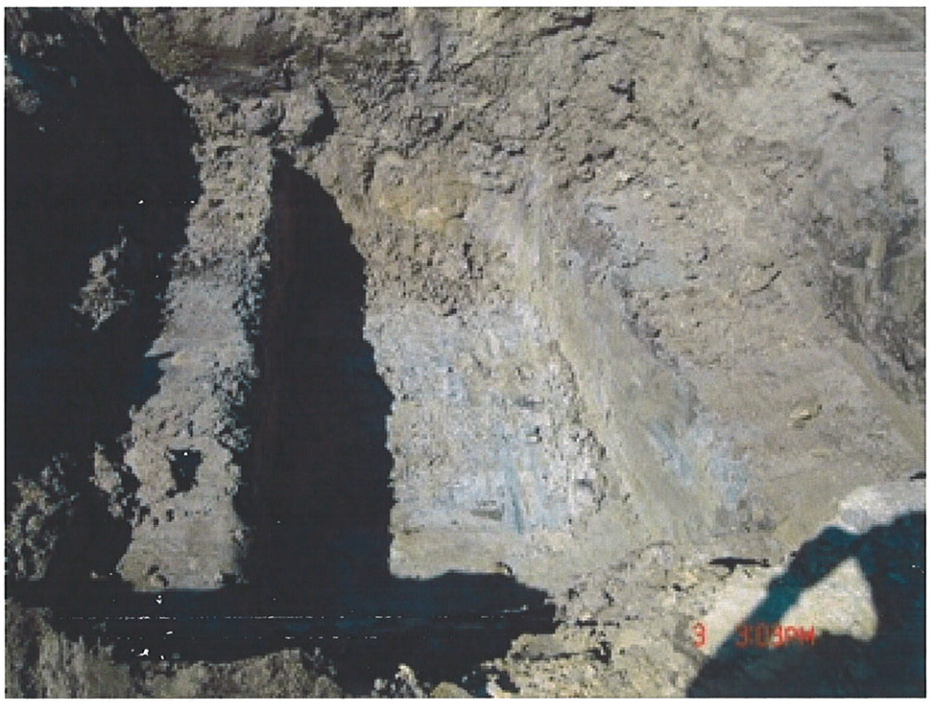
Client:
MCB Camp Lejeune

Facility:
Former Tarawa Terrace School (Bldg TT-48)
(Tank #1)

Date:
October 3, 2006

View:
West

Comments:
TT-48 Tank #1 Excavation



APPENDIX F

MONITORING WELL CONSTRUCTION AND ABANDONMENT RECORDS

NON RESIDENTIAL WELL CONSTRUCTION RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2156

1. WELL CONTRACTOR:

JIMMIE MANN
Well Contractor (Individual) Name

MANN DRILLING CO.
Well Contractor Company Name

STREET ADDRESS 805 Chatham Street

NEWPORT N.C. 28570
City or Town State Zip Code

(252)- 223-5646
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) TT TANK 1

STATE WELL PERMIT#(if applicable)

DWQ or OTHER PERMIT #(if applicable)

WELL USE (Check Applicable Box) Monitoring ☐ Municipal/Public ☐
Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐
Irrigation ☐ Other ☒ (list use) TEMP. H2O SAMPLE

DATE DRILLED 11-2-06

TIME COMPLETED 2:00 AM ☐ PM ☒

3. WELL LOCATION:

CITY: CAMP LEJEUNE T/C COUNTY ONSLOW

SIPAN RD. NEW HOUSING
(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:
☐ Slope ☐ Valley ☒ Flat ☐ Ridge ☒ Other X
(check appropriate box)

LATITUDE 34-44.139 N

LONGITUDE 77-22.692W

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: ☒ GPS ☐ Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

4. FACILITY- Is the name of the business where the well is located.

FACILITY ID #(if applicable)

NAME OF FACILITY

STREET ADDRESS

City or Town State Zip Code

CONTACT PERSON COMMANDING GENERAL

MAILING ADDRESS PSC BOX 20004

CAMP LEJEUNE NC 28542
City or Town State Zip Code

(910)- 451-3991
Area code - Phone number

5. WELL DETAILS:

a. **TOTAL DEPTH:** 13'

b. **DOES WELL REPLACE EXISTING WELL?** YES ☐ NO ☒

c. **WATER LEVEL** Below Top of Casing: 5.78 FT.
(Use "+" if Above Top of Casing)

d. **TOP OF CASING IS** 2" FT. Above Land Surface*
*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. **YIELD (gpm):** _____ **METHOD OF TEST** _____

f. **DISINFECTION: Type** N/A **Amount** _____

g. **WATER ZONES** (depth):

From 4	To 10'	From	To
From	To	From	To
From	To	From	To

6. CASING:

	Depth		Diameter	Thickness/ Weight	Material
From +2	To 3'	Ft. 2"		SCD40	PVC
From	To	Ft.			
From	To	Ft.			

7. GROUT:

	Depth		Material	Method
From	To	Ft.		
From	To	Ft.		
From	To	Ft.		

8. SCREEN:

	Depth		Diameter		Slot Size		Material
From 3'	To 13'	Ft. 2	in.	.01	in.	PVC
From	To	Ft.	in.		in.	
From	To	Ft.	in.		in.	

9. SAND/GRAVEL PACK:

	Depth		Size	Material
From 2'	To 13'	Ft.	#2	SAND
From	To	Ft.		
From	To	Ft.		

10. DRILLING LOG

From	To	Formation Description
0'	4'	TAN SILTY SAND (FILL)
4'	10'	BROWN FINE SAND
10'	14'	OLIVE SANDY CLAY

11. REMARKS:

TEMP. WELL FOR ONE WATER SAMPLE ONLY. ABANDON AFTER SAMPLE

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CERTIFIED WELL CONTRACTOR — DATE 11-12-06

JIMMIE MANN
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center – Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b
Rev. 7/05

WELL ABANDONMENT RECORD

North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION # 2156

1. WELL CONTRACTOR:

JIMMIE MANN
Well Contractor (Individual) Name

MANN DRILLING CO.
Well Contractor Company Name

STREET ADDRESS 805 Chatham Street

NEWPORT | NC | 28570
City or Town | State | Zip Code

(252) - 223-5646
Area code - Phone number

2. WELL INFORMATION:

SITE WELL ID # (if applicable) TT TANK 1

STATE WELL PERMIT # (if applicable) _____

COUNTY WELL PERMIT # (if applicable) _____

DWQ or OTHER PERMIT # (if applicable) _____

WELL USE (Check applicable use): ☐ **Monitoring** ☐ **Residential**

☐ **Municipal/Public** ☐ **Industrial/Commercial** ☐ **Agricultural**

☐ **Recovery** ☐ **Injection** ☐ **Irrigation**

☑ Other (list use) TEMP. H2O SAMPLE

3. WELL LOCATION:

COUNTY ONSLOW QUADRANGLE NAME _____

NEAREST TOWN: CAMP LEJEUNE T.T.

SIPAN RD. NEW HOUSING
(Street/Road Name, Number, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

☐ Slope ☐ Valley ☑ Flat ☐ Ridge ☐ Other _____
(Check appropriate setting)

LATITUDE 34-44.139 N

LONGITUDE 77-22.-692 W

May be in degrees, minutes, seconds, or in a decimal format

Latitude/longitude source: ☑ **GPS** ☐ **Topographic map**

(Location of well must be shown on a USGS topo map and attached to this form if not using GPS.)

4a. FACILITY- The name of the business where the well is located. Complete 4a and 4b. (If a residential well, skip 4a; complete 4b, well owner information only.)

FACILITY ID #(if applicable) _____

NAME OF FACILITY _____

STREET ADDRESS PH: 910-450-6567

CAMP LEJEUNE | NC | 28542
City or Town | State | Zip Code

4b. CONTACT PERSON/WELL OWNER:

NAME COMMANDING GENERAL

STREET ADDRESS PSC BOX 20004

5. WELL DETAILS:

a. Total Depth: 13' ft. Diameter: 2 in.

b. Water Level (Below Measuring Point): _____ ft.

Measuring point is _____ ft. above land surface.

6. CASING:

	Length		Diameter	
a. Casing Depth (if known):	3'	ft.	2	in.
b. Casing Removed:	3'	ft.	2	in.

7. DISINFECTION: NONE

(Amount of 65%-75% calcium hypochlorite used)

8. SEALING MATERIAL:

Neat Cement

Cement _____ lb.
Water _____ gal.

Sand Cement

Cement _____ lb.
Water _____ gal.

Bentonite

Bentonite lb.

Type: ☐ Slurry ☐ Pellets

Water _____ gal.

Other

Type material BENTONITE CHIPS

Amount 35 LBS.

9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL:

PULLED CASING AND SCREEN. BACKFILLED HOLE WITH BENTONITE CHIPS

10. WELL DIAGRAM: Draw a detailed sketch of the well on the back of this form showing total depth, depth and diameter of screens (if any) remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.

11. DATE WELL ABANDONED 11/2/06

I DO HEREBY CERTIFY THAT THIS WELL WAS ABANDONED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

_____ 11-12-06
SIGNATURE OF CERTIFIED WELL CONTRACTOR **DATE**

_____
SIGNATURE OF PRIVATE WELL OWNER ABANDONING THE WELL DATE
(The private well owner must be an individual who personally abandons his/her residential well in accordance with 15A NCAC 2C .0113.)

JIMMIE MANN
PRINTED NAME OF PERSON ABANDONING THE WELL

Submit a copy to the owner and the original to the Division of Water Quality within 30 days.
Attn: Information Management, 1617 Mail Service Center – Raleigh, NC 27699-1617, Phone No. (919) 733-7015 ext 568.

Form GW-30
Rev. 5/06