

Shaw Environmental, Inc.
11560 Great Oaks Way, Suite 500
Alpharetta, GA 30022-2424
770.475.8994
Fax 770.777.8165



June 7, 2005

DEPARTMENT OF THE NAVY

Mr. Dave Cleland
North Carolina/Caribbean IPT
NAVFAC
6506 Hampton Blvd. Room 3700
Norfolk, VA 23508

Re: Contract N62470-02-D-3260; Task Order 0040
Remediation Alternatives Implementation, BM-820 and H-30 Reports
MCB Camp Lejeune, North Carolina

Dear Mr. Cleland:

Attached find one hardcopy and one CD version of the following Shaw Environmental, Inc. (Shaw) submittals:

- Soil Contamination Report, Berkley Manor 820, which now includes the groundwater data for the new Type III wells
- Soil Removal Report, Building H-30. Please note at this time disposal of the excavated soils has not been completed and finalized disposal manifests can be supplied as an insert into Appendix D upon their receipt.

Two hardcopies (one for State submittal) of each submittal have been provided to EMD as well. Should any additional clarification be needed, please do not hesitate to contact me at 770-663-1453 at your convenience, and thank you for allowing Shaw to continue serving NAVFAC and Camp Lejeune's environmental project needs.

Sincerely,

Shaw Environmental, Inc.

A handwritten signature in black ink, appearing to read "R.B. Kenyon", with a long, sweeping horizontal line extending to the right.

Ronald B. Kenyon
Project Manager

Attachments

pc: A. Smith, EMD
Shaw PMO, Va Beach
Project File 112768

FORMER BUILDING H-30 SOIL REMOVAL REPORT
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

Prepared for:

Commander
Naval Facilities Engineering Command



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

Prepared by:



11560 Great Oaks Way, Suite 500
Alpharetta, GA 30022-2424

Task Order 0040
Shaw Project No. 112768

June 2005

FORMER BUILDING H-30 SOIL REMOVAL REPORT
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

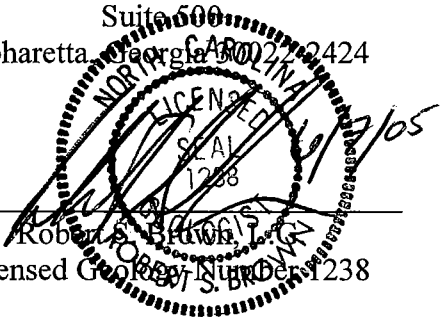
Prepared for:

DEPARTMENT OF THE NAVY
Contract No. N62470-02-D-3260
Task Order 0040

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

Prepared by:

Shaw Environmental, Inc.
11560 Great Oaks Way
Suite 500
Alpharetta, Georgia 30022-2424


Robert S. Brown
Licensed Geotechnical Engineer, License No. 1238



Ron Kenyon
Project Manager



Roland Moreau, P.E.
Program Manager

June 2005
Shaw Project No. 112768

TABLE OF CONTENTS

1.0	INTRODUCTION	1-1
1.1	Environmental Setting	1-1
1.2	Site Description.....	1-1
2.0	SCOPE-OF-WORK.....	2-1
3.0	EXCAVATION ACTIVITIES	3-1
3.1	former Building H-30 Site Preparation.....	3-1
3.2	former Building H-30 soil removal activities	3-1
3.3	Former Building H-30 soil disposal.....	3-1
4.0	SOIL CONFIRMATION SAMPLING & ANALYSIS RESULTS	4-1
4.1	Former Building H-30 soil removal analytical results.....	4-1
5.0	CONCLUSIONS AND RECOMMENDATIONS.....	5-1

FIGURES

Figure 1.1	Former Building H-30 Location Map
Figure 1.2	Former Building H-30 Excavation and Confirmation Sample Location Map

TABLES

Table 3.1	Soil Disposal Analytical Results
Table 4.1	Building H-30 VOCs Confirmation Soil Sample Analytical Results
Table 4.2	Building H-30 SVOCs Confirmation Soil Sample Analytical Results
Table 4.3	Building H-30 MADEP-EPH/VPH Confirmation Soil Sample Analytical Results
Table 4.4	Building H-30 MADEP-EPH/VPH Summary Analytical Results

APPENDICES

APPENDIX A	Field Implementation Photographs
APPENDIX B	Monitoring Well Abandonment Form
APPENDIX C	Soil Disposal Laboratory Analytical Reports
APPENDIX D	Building H-30 Soil Disposal manifest
APPENDIX E	Building H-30 Site Confirmation Soil Sample Laboratory Analytical Reports

1.0 INTRODUCTION

Shaw Environmental Inc. (Shaw) was tasked by the Department of the Navy, Naval Facilities Engineering Command, Atlantic Division (LANTDIV) under Contract Number N62470-02-D-3260, Task Order 0040, to complete a limited soil removal action at the former Building H-30 location. The site is located near Gottschalk Marina on the Marine Corps Base (MCB), Camp Lejeune, in Onslow County North Carolina.

1.1 ENVIRONMENTAL SETTING

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 and includes 14 miles of coastline. MCB Camp Lejeune is bounded to the southeast by the Atlantic Ocean and the northeast by State Route 24 (*Figure 1-1*).

1.2 SITE DESCRIPTION

Building H-30 was associated with the former Naval Hospital at Camp Lejeune and served as the men's servant quarters. Two, 560-gallon fuel oil tanks were located next to the building. The tanks were removed in 1992. The building has been demolished. The date of the demolition is not known, but may have been completed during tank removal activities. Several site studies have since been completed at the site, most recently a soil assessment investigation was completed by CATLIN Engineering in the vicinity of the former tanks. CATLIN Engineering prepared a Soil Assessment report in June 2004, recommending a limited soil removal action at the site. This report discusses field activities and analytical results of the soil removal action. A site map of the former Building H-30 area is presented in *Figure 1.2*.

2.0 SCOPE-OF-WORK

The scope-of-work completed during implementation of the soil removal activity at the former Building H-30 site is as follows:

- Abandon existing monitoring well USTH30-MW12
- Excavate a 10 feet by 10 feet area to groundwater, stockpile, and manage contaminated soil until T&D load-out
- Collect confirmation soil samples in accordance with State UST regulations. The samples were analyzed for MADEP-VPH, MADEP-EPH, VOCs using Method 8260B, and SVOCs using Method 8270C. Analytical results were compared with the Residential North Carolina Maximum Soil Contaminant Concentrations.
- Sample, characterize, and load-out contaminated soils for offsite disposal
- Backfill and restore site

3.0 EXCAVATION ACTIVITIES

Soil removal activities were completed using a rubber tired excavator. The excavated soil was stockpiled at the site. The stockpile was covered until final analytical results of the disposal analyses were received confirming the soils could be properly disposed. Photographs of field activities are provided in *Appendix A*.

3.1 FORMER BUILDING H-30 SITE PREPARATION

Prior to soil excavation activities some minor site clearing and grubbing was required to remove undergrowth from the location of the excavation. Small trees and brush removed was loaded onto one five cubic yard dump truck and hauled to the Base landfill to be mulched. In addition, monitoring well USTH30-MW12 (located in the center of the excavation) was abandoned by a North Carolina licensed driller. The monitoring well was destroyed during excavation activities. A copy of the monitoring well abandonment form is provided in *Appendix B*.

3.2 FORMER BUILDING H-30 SOIL REMOVAL ACTIVITIES

On May 18, 2005, soil removal activities were completed at the former Building H-30 site. The area measured approximately 10 feet by 10 feet and was approximately 4 feet deep. Depth to groundwater measurements from nearby monitoring wells indicated groundwater was present approximately 4.5 feet below land surface. A total of approximately 20 tons of soil was removed during the removal action. Sidewall confirmation samples (H30-001, H30-002, H30-003 and H30-004) and floor confirmation soil sample (H30-005) were collected from the excavation on May 18, 2005. Because the site was located in a relatively remote location, the excavated soil was staged on plastic (and covered) at the site pending disposal. *Figure 1.2* presents a map of the excavation.

3.3 FORMER BUILDING H-30 SOIL DISPOSAL

Stockpile soil analytical results tested positive for total petroleum hydrocarbons, requiring off-site disposal. An estimated 20 tons of soil from the former Building H-30 excavation will be properly manifested, transported and disposed at ES&J Inc. landfill located in Autryville, North Carolina. *Table 3.1* presents analytical results from the sample collected for waste characterization analysis. *Appendix C* provides photocopies of the laboratory analytical

reports of the disposal analysis. *Appendix D* provides a photocopy of the soil disposal manifest.

4.0 SOIL CONFIRMATION SAMPLING AND ANALYSIS RESULTS

4.1 FORMER BUILDING H-30 SOIL REMOVAL ANALYTICAL RESULTS

A total of five confirmation soil samples were collected from the excavation. Sidewall and floor confirmation soil samples were collected on May 18, 2005. The samples were analyzed for MADEP-VPH, MADEP-EPH, VOCs using Method 8260B, and SVOCs using Method 8270C to determine whether excavation activities had removed all the contaminated soil.

The soil sample analytical results indicated all four sidewall samples and the floor sample were below the residential MSCC for all contaminants of concern. Analytical results from the confirmation soil samples are summarized on *Tables 4.1, 4.2, 4.3 and 4.4*. Photocopies of the laboratory analytical reports are provided in *Appendix E*.

5.0 CONCLUSIONS AND RECOMMENDATIONS

On May 18, 2005 Shaw completed a soil removal action at a location in the vicinity of former Building H-30 located on the main side of the Camp Lejeune Marine Corp Base. No surface staining was observed during removal activities. Groundwater was not encountered during excavation activities.

Confirmation soil sample analytical results did not detect MADEP-VPH, MADEP-EPH, VOCs, or SVOCs above the residential MSCC for all contaminants of concern. Based on results of the confirmation soil samples, all contaminated soil has been removed from the former Building H-30 site.

TABLES

Table 3.1
Soil Disposal Characterization
TCLP Results/Regulations

Compound	Reg. Limit	H30-007
Organics		
TPH-DRO (mg/Kg)	10	9.22
TPH-GRO (mg/Kg)	10	<6.2
General Chemistry		
Reactive Cyanide (mg/Kg)	250	<5.9
Reactive Sulfide (mg/Kg)	500	<59
Corrosivity (pH units)		5.5
Ignitability (°F)		>200
TCLP (mg/L)		
Arsenic	5	0.0030
Barium	100	<1
Benzene	0.5	<0.01
Cadmium	1	<0.005
Carbon tetrachloride	0.5	<0.02
Chlorobenzene	100	<0.02
Chlordane	0.03	<0.005
Chloroform	6	<0.02
Chromium	5	<0.01
o-Cresols	200	<0.05
m+p-Cresols	200	<0.05
2,4-D	10	<0.015
1,4-Dichlorobenzene	7.5	<0.05
1,2-Dichloroethane	0.5	<0.02
1,1-Dichloroethene	0.7	<0.02
2,4-Dinitrotoluene	0.13	<0.05
Endrin	0.02	<0.001
Heptachlor	0.008	<0.0005
Heptachlor epoxide	0.008	<0.0005
Hexachlorobenzene	0.13	<0.05
Hexachlorobutadiene	0.5	<0.05
Hexachloroethane	3	<0.05
Lead	5	0.0130
Lindane	0.4	<0.0005
Mercury	0.2	<0.001
Methoxychlor	10	<0.001
Methyl ethyl ketone	200	<0.1
Nitrobenzene	2	<0.05
Pentachlorophenol	100	<0.25
Pyridine	5	<0.1
Selenium	1	<0.05
Silver	5	<0.001
2,4,5-TP (Silvex)	1	<0.002
Tetrachloroethene	0.7	<0.02
Trichloroethene	0.5	<0.02
2,4,5-Trichlorophenol	400	<0.05
2,4,6-Trichlorophenol	2	<0.05
Toxaphene	0.5	<0.025
Vinyl chloride	0.2	<0.01

Bold print shows detectable concentrations.
No results exceed regulatory limits.

Table 4.1
Building H-30
VOC Confirmation Soil Sample Analytical Results

Date: 6/1/2005			Incident Number and Name: 112768 H-30																
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	Dibromochloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
Sample ID	Date Collected	Sample Depth (ft bgs)																	
H30-001 North Sidewall	5/18/2005	2 feet	<0.049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049
H30-002 South Sidewall	5/18/2005	2 feet	<0.054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
H30-003 East Sidewall	5/18/2005	2 feet	<0.058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058
H30-004 West Sidewall	5/18/2005	2 feet	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
H30-005 Floor	5/18/2005	4 feet	<0.052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
Soil to Groundwater MSCC (mg/kg)			3	0.0056	NS	NS	NS	NS	0.001	4	NS	4	0.045	0.0018	0.0029	0.002	0.35	0.0009	0.38
Residential MSCC (mg/kg)			1564	22	NS	NS	NS	NS	100	1564	NS	1560	1	7	9	7	156	4	320
Industrial/Commercial MSCC (mg/kg)			40800	200	NS	NS	NS	NS	938	40880	NS	40000	10	63	84	68	4000	33	8200

Date: 6/1/2005			Incident Number and Name: 112768 H-30																
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	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)																	
H30-001 North Sidewall	5/18/2005	2 feet	<0.0049	<0.0049	<0.024	<0.024	<0.0049	<0.0049	<0.0098	<0.024	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.015
H30-002 South Sidewall	5/18/2005	2 feet	<0.0054	<0.0054	<0.027	<0.027	<0.0054	<0.0054	<0.011	<0.027	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.016
H30-003 East Sidewall	5/18/2005	2 feet	<0.0058	<0.0058	<0.029	<0.029	<0.0058	<0.0058	<0.012	<0.029	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.017
H30-004 West Sidewall	5/18/2005	2 feet	<0.005	<0.005	<0.025	<0.025	<0.005	<0.005	<0.0099	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.015
H30-005 Floor	5/18/2005	4 feet	<0.0052	<0.0052	<0.026	<0.026	<0.0052	<0.0052	<0.01	<0.026	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.016
Soil to Groundwater MSCC (mg/kg)			0.0009	0.24	1.9	NS	NS	0.02	0.02	0.7	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	3128	NS	3	NS	12	3200	58	NS	32000
Industrial/Commercial MSCC (mg/kg)			33	40000	16352	NS	NS	440	763	245280	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 4.2
Building H-30
SVOC Confirmation Soil Sample Analytical Results

Date: 6/1/2005			Incident Number and Name: 112768 H-30																
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)																	
H30-001 North Sidewall	5/18/2005	2 feet	<0.92	<0.18	<0.18	<0.18	<0.18	<0.92	<0.37	<0.18	<0.18	<0.18	<0.92	<0.92	<0.18	<0.18	<0.18	<0.18	<0.18
H30-002 South Sidewall	5/18/2005	2 feet	<1	<0.2	<0.2	<0.2	<0.2	<1	<0.4	<0.2	<0.2	<0.2	<1	<1	<0.2	<0.2	<0.2	<0.2	<0.2
H30-003 East Sidewall	5/18/2005	2 feet	<0.96	<0.19	<0.19	<0.19	<0.19	<0.96	<0.39	<0.19	<0.19	<0.19	<0.96	<0.96	<0.19	<0.19	<0.19	<0.19	<0.19
H30-004 West Sidewall	5/18/2005	2 feet	<0.95	<0.19	<0.19	<0.19	<0.19	<0.95	<0.38	<0.19	<0.19	<0.19	<0.95	<0.95	<0.19	<0.19	<0.19	<0.19	<0.19
H30-005 Floor	5/18/2005	4 feet	<0.98	<0.2	<0.2	<0.2	<0.2	<0.98	<0.39	<0.2	<0.2	<0.2	<0.98	<0.98	<0.2	<0.2	<0.2	<0.2	<0.2
Soil to Groundwater MSCC (mg/kg)			NS	NS	NS	NS	0.9	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	940	469
Industrial/Commercial MSCC (mg/kg)			NS	NS	NS	NS	8176	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	24000	12264

Date: 6/1/2005			Incident Number and Name: 112768 H-30																
Analytical Method:			8270C																
Contaminant of Concern			4-Chlorophenyl phenyl eth	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)																	
H30-001 North Sidewall	5/18/2005	2 feet	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.37	<0.18	<0.18	<0.37	<0.37	<0.37	<0.37	<0.37	<0.18	<0.18	<0.18
H30-002 South Sidewall	5/18/2005	2 feet	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<0.4	<0.2	<0.2	<0.2
H30-003 East Sidewall	5/18/2005	2 feet	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.39	<0.19	<0.19	<0.39	<0.39	<0.39	<0.39	<0.39	<0.19	<0.19	<0.19
H30-004 West Sidewall	5/18/2005	2 feet	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.38	<0.19	<0.19	<0.38	<0.38	<0.38	<0.38	<0.38	<0.19	<0.19	<0.19
H30-005 Floor	5/18/2005	4 feet	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.39	<0.2	<0.2	<0.39	<0.39	<0.39	<0.39	<0.39	<0.2	<0.2	<0.2
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 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 4.2
Building H-30
SVOC Confirmation Soil Sample Analytical Results

Date: 6/1/2005			Incident Number and Name: 112768 H-30															
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 e	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)																
H30-001 North Sidewall	5/18/2005	2 feet	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.37	<0.18	<0.18	<0.37	<0.18	<0.18	<0.18	<0.18	<0.18
H30-002 South Sidewall	5/18/2005	2 feet	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
H30-003 East Sidewall	5/18/2005	2 feet	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.39	<0.19	<0.19	<0.39	<0.19	<0.19	<0.19	<0.19	<0.19
H30-004 West Sidewall	5/18/2005	2 feet	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.38	<0.19	<0.19	<0.38	<0.19	<0.19	<0.19	<0.19	<0.19
H30-005 Floor	5/18/2005	4 feet	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.39	<0.2	<0.2	<0.39	<0.2	<0.2	<0.2	<0.2	<0.2
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: 6/1/2005			Incident Number and Name: 112768 H-30															
Analytical Method:			8270C															
Contaminant of Concern			Hexachlorobutadiene	Hexachlorocyclopentadien	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)																
H30-001 North Sidewall	5/18/2005	2 feet	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.37	<0.37	<0.37	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
H30-002 South Sidewall	5/18/2005	2 feet	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
H30-003 East Sidewall	5/18/2005	2 feet	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.39	<0.39	<0.39	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
H30-004 West Sidewall	5/18/2005	2 feet	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.38	<0.38	<0.38	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
H30-005 Floor	5/18/2005	4 feet	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.39	<0.39	<0.39	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Soil to Groundwater MSCC (mg/kg)			0.26	NS	NS	3	NS	3	NS	NS	NS	0.58	NS	NS	NS	80	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 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 4.3
EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
Project Name: Camp Lejeune-H-30
Site Location: _____

Laboratory Name: Accutest Southeast
NC Certification # (Lab):
Sample Matrix : Soil

Sample Information and Analytical Results						
Method for Ranges: MADEP-EPH-98-1		Sample Identification		H-30-001		
EPH Surrogate Standards		Date Collected		05/18/2005		
Aliphatic: 1-Chlorooctadecane		Date Received		05/19/2005		
Aromatic: o-Terphenyl		Date Extracted		05/20/2005		
EPH Fractionation Surrogates		Date Analyzed		05/25/2005		
#1: 2-Fluorobiphenyl		% Dry Solids		86.1		
#2: 2-Bromonaphthalene		Dilution Factor		1		
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK		
C9-C18 Aliphatics	ug/kg	7700	7700	ND	ND	
C19-C36 Aliphatics	ug/kg	7700	7700	ND	ND	
C11-C22 Aromatics (Unadj.)	ug/kg	7700	7700	ND	ND	
Sample Surrogate Acceptance Range				40-140	40-140	
Aliphatic Surrogate % Recovery				64	61	
Aromatic Surrogate % Recovery				92	77	
Fractionation Surrogate Acceptance Range						
Fractionation Surrogate #1 % Recovery				77	89	
Fractionation Surrogate #2 % Recovery				42	83	
* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.						
MDL = Method Detection Limit RL = Reporting Limit						

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?

Yes

Was blank correction applied as a significant modification of the method?

Yes

Were any significant modifications to the eph method made?

No

Table 4.3 (cont.)
VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
 Project Name: Camp Lejeune-H-30
 Site Location: _____

Laboratory Name: Accutest Southeast
 NC Certification # (Lab): 573
 Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP VPH VPH Surrogate Standards Aliphatic: BFB Aromatic: BFB		Sample Identification			H-30-001			
		Collection Option (for soil)*			1			
		Date Collected			05/18/2005			
		Date Received			05/19/2005			
		Date Extracted			05/19/2005			
		Date Analyzed			05/24/2005			
		% Dry Solids			86.1			
		Dilution Factor			1			
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK				
C5- C8 Aliphatics (Unadj.)	ug/kg	2200	4200	ND	ND			
C9- C12 Aliphatics (Unadj.)	ug/kg	1700	3100	ND	ND			
C9- C10 Aromatics (Unadj.)	ug/kg	560	1100	ND	ND			
Sample Surrogate Acceptance Range				70-130%	70-130%			
Aliphatic Surrogate % Recovery - FID				115	108			
Aromatic Surrogate % Recovery - PID				117	113			

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil

** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.

MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?

Yes

Were any significant modifications to the VPH method made?

No

Table 4.3 (cont.)
EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
 Project Name: Camp Lejeune-H-30
 Site Location: _____

Laboratory Name: Accutest Southeast
 NC Certification # (Lab):
 Sample Matrix : Soil

Sample Information and Analytical Results						
Method for Ranges: MADEP-EPH-98-1		Sample Identification		H-30-002		
EPH Surrogate Standards		Date Collected		05/18/2005		
Aliphatic: 1-Chlorooctadecane		Date Received		05/19/2005		
Aromatic: o-Terphenyl		Date Extracted		05/20/2005		
EPH Fractionation Surrogates		Date Analyzed		05/25/2005		
#1: 2-Fluorobiphenyl		% Dry Solids		82		
#2: 2-Bromonaphthalene		Dilution Factor		1		
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK		
C9-C18 Aliphatics	ug/kg	8100	8100	ND	ND	
C19-C36 Aliphatics	ug/kg	8100	8100	ND	ND	
C11-C22 Aromatics (Unadj.)	ug/kg	8100	8100	ND	ND	
Sample Surrogate Acceptance Range				40-140	40-140	
Aliphatic Surrogate % Recovery				64	63	
Aromatic Surrogate % Recovery				92	80	
Fractionation Surrogate Acceptance Range						
Fractionation Surrogate #1 % Recovery				77	83	
Fractionation Surrogate #2 % Recovery				42	73	
* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.						
MDL = Method Detection Limit RL = Reporting Limit						

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?
Was blank correction applied as a significant modification of the method?
Were any significant modifications to the eph method made?

Yes
 Yes
 No

Table 4.3 (cont.)
VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
 Project Name: Camp Lejeune-H-30
 Site Location: _____

Laboratory Name: Accutest Southeast
 NC Certification # (Lab): 573
 Sample Matrix : Soil

Sample Information and Analytical Results						
Method for Ranges: MADEP VPH VPH Surrogate Standards Aliphatic: BFB Aromatic: BFB		Sample Identification		H-30-002		
		Collection Option (for soil)*		1		
		Date Collected		05/18/2005		
		Date Received		05/19/2005		
		Date Extracted		05/19/2005		
		Date Analyzed		05/24/2005		
		% Dry Solids		82		
		Dilution Factor		1		
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK		
C5- C8 Aliphatics (Unadj.)	ug/kg	2300	4400	ND	ND	-
C9- C12 Aliphatics (Unadj.)	ug/kg	1700	3200	ND	ND	
C9- C10 Aromatics (Unadj.)	ug/kg	580	1200	ND	ND	
Sample Surrogate Acceptance Range				70-130%	70-130%	
Aliphatic Surrogate % Recovery - FID				115	105	
Aromatic Surrogate % Recovery - PID				117	108	
* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range. MDL = Method Detection Limit RL = Reporting Limit						

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?

Yes

Were any significant modifications to the VPH method made?

No

Table 4.3 (cont.)
EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
 Project Name: Camp Lejeune-H-30
 Site Location: _____

Laboratory Name: Accutest Southeast
 NC Certification # (Lab):
 Sample Matrix : Soil

Sample Information and Analytical Results

Method for Ranges: MADEP-EPH-98-1 EPH Surrogate Standards Aliphatic: 1-Chlorooctadecane Aromatic: o-Terphenyl EPH Fractionation Surrogates #1: 2-Fluorobiphenyl #2: 2-Bromonaphthalene		Sample Identification			H-30-003			
		Date Collected			05/18/2005			
		Date Received			05/19/2005			
		Date Extracted			05/20/2005			
		Date Analyzed			05/26/2005			
		% Dry Solids			86.4			
		Dilution Factor			8			
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK				
C9-C18 Aliphatics	ug/kg	62000	62000	ND	524000			
C19-C36 Aliphatics	ug/kg	62000	62000	ND	122000			
C11-C22 Aromatics (Unadj.)	ug/kg	62000	62000	ND	116000			
Sample Surrogate Acceptance Range				40-140	40-140			
Aliphatic Surrogate % Recovery				64	77			
Aromatic Surrogate % Recovery				92	89			
Fractionation Surrogate Acceptance Range								
Fractionation Surrogate #1 % Recovery				77	82			
Fractionation Surrogate #2 % Recovery				42	66			
* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range. MDL = Method Detection Limit RL = Reporting Limit								

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?

Yes

Was blank correction applied as a significant modification of the method?

Yes

Were any significant modifications to the eph method made?

No

Table 4.3 (cont.)
VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
 Project Name: Camp Lejeune-H-30
 Site Location: _____

Laboratory Name: Accutest Southeast
 NC Certification # (Lab): 573
 Sample Matrix : Soil

Sample Information and Analytical Results					
Method for Ranges: MADEP VPH VPH Surrogate Standards Aliphatic: BFB Aromatic: BFB		Sample Identification		H-30-003	
		Collection Option (for soil)*		1	
		Date Collected		05/18/2005	
		Date Received		05/19/2005	
		Date Extracted		05/19/2005	
		Date Analyzed		05/24/2005	
		% Dry Solids		86.4	
		Dilution Factor		1	
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK	
C5- C8 Aliphatics (Unadj.)	ug/kg	2200	4100	ND	ND
C9- C12 Aliphatics (Unadj.)	ug/kg	1600	3000	ND	ND
C9- C10 Aromatics (Unadj.)	ug/kg	550	1100	ND	ND
Sample Surrogate Acceptance Range				70-130%	70-130%
Aliphatic Surrogate % Recovery - FID				115	93
Aromatic Surrogate % Recovery - PID				117	96

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil
 ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?

Yes

Were any significant modifications to the VPH method made?

No

Table 4.3 (cont.)
EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
 Project Name: Camp Lejeune-H-30
 Site Location: _____

Laboratory Name: Accutest Southeast
 NC Certification # (Lab):
 Sample Matrix : Soil

Sample Information and Analytical Results							
Method for Ranges: MADEP-EPH-98-1		Sample Identification		H-30-004			
EPH Surrogate Standards		Date Collected		05/18/2005			
Aliphatic: 1-Chlorooctadecane		Date Received		05/19/2005			
Aromatic: o-Terphenyl		Date Extracted		05/20/2005			
EPH Fractionation Surrogates		Date Analyzed		05/25/2005			
#1: 2-Fluorobiphenyl		% Dry Solids		83.2			
#2: 2-Bromonaphthalene		Dilution Factor		1			
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK			
C9-C18 Aliphatics	ug/kg	7900	7900	ND	ND		
C19-C36 Aliphatics	ug/kg	7900	7900	ND	ND		
C11-C22 Aromatics (Unadj.)	ug/kg	7900	7900	ND	ND		
Sample Surrogate Acceptance Range				40-140	40-140		
Aliphatic Surrogate % Recovery				64	69		
Aromatic Surrogate % Recovery				92	86		
Fractionation Surrogate Acceptance Range							
Fractionation Surrogate #1 % Recovery				77	90		
Fractionation Surrogate #2 % Recovery				42	65		
* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range. MDL = Method Detection Limit RL = Reporting Limit							

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?

Yes

Was blank correction applied as a significant modification of the method?

Yes

Were any significant modifications to the eph method made?

No

Table 4.3 (cont.)
VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
 Project Name: Camp Lejeune-H-30
 Site Location: _____

Laboratory Name: Accutest Southeast
 NC Certification # (Lab): 573
 Sample Matrix : Soil

Sample Information and Analytical Results						
Method for Ranges: MADEP VPH VPH Surrogate Standards Aliphatic: BFB Aromatic: BFB		Sample Identification		H-30-004		
		Collection Option (for soil)*		1		
		Date Collected		05/18/2005		
		Date Received		05/19/2005		
		Date Extracted		05/19/2005		
		Date Analyzed		05/24/2005		
		% Dry Solids		83.2		
		Dilution Factor		1		
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK		
C5- C8 Aliphatics (Unadj.)	ug/kg	2100	3900	ND	ND	
C9- C12 Aliphatics (Unadj.)	ug/kg	1600	2900	ND	ND	
C9- C10 Aromatics (Unadj.)	ug/kg	520	1000	ND	ND	
Sample Surrogate Acceptance Range				70-130%	70-130%	
Aliphatic Surrogate % Recovery - FID				115	91	
Aromatic Surrogate % Recovery - PID				117	93	
* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range. MDL = Method Detection Limit RL = Reporting Limit						

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?

Yes

Were any significant modifications to the VPH method made?

No

Table 4.3 (cont.)
EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
 Project Name: Camp Lejeune-H-30
 Site Location: _____

Laboratory Name: Accutest Southeast
 NC Certification # (Lab):
 Sample Matrix : Soil

Sample Information and Analytical Results						
Method for Ranges: MADEP-EPH-98-1		Sample Identification		H-30-005		
EPH Surrogate Standards		Date Collected		05/18/2005		
Aliphatic: 1-Chlorooctadecane		Date Received		05/19/2005		
Aromatic: o-Terphenyl		Date Extracted		05/20/2005		
EPH Fractionation Surrogates		Date Analyzed		05/26/2005		
#1: 2-Fluorobiphenyl		% Dry Solids		80.4		
#2: 2-Bromonaphthalene		Dilution Factor		2		
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK		
C9-C18 Aliphatics	ug/kg	16000	16000	ND	154000	
C19-C36 Aliphatics	ug/kg	16000	16000	ND	40600	
C11-C22 Aromatics (Unadj.)	ug/kg	16000	16000	ND	61700	
Sample Surrogate Acceptance Range				40-140	40-140	
Aliphatic Surrogate % Recovery				64	57	
Aromatic Surrogate % Recovery				92	83	
Fractionation Surrogate Acceptance Range						
Fractionation Surrogate #1 % Recovery				77	89	
Fractionation Surrogate #2 % Recovery				42	86	
* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range. MDL = Method Detection Limit RL = Reporting Limit						

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?
Was blank correction applied as a significant modification of the method?
Were any significant modifications to the eph method made?

Yes
 Yes
 No

Table 4.3 (cont.)
VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
 Project Name: Camp Lejeune-H-30
 Site Location: _____

Laboratory Name: Accutest Southeast
 NC Certification # (Lab): 573
 Sample Matrix : Soil

Sample Information and Analytical Results						
Method for Ranges: MADEP VPH VPH Surrogate Standards Aliphatic: BFB Aromatic: BFB		Sample Identification		H-30-005		
		Collection Option (for soil)*		1		
		Date Collected		05/18/2005		
		Date Received		05/19/2005		
		Date Extracted		05/19/2005		
		Date Analyzed		05/24/2005		
		% Dry Solids		80.4		
		Dilution Factor		1		
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK		
C5- C8 Aliphatics (Unadj.)	ug/kg	2300	4300	ND	ND	
C9- C12 Aliphatics (Unadj.)	ug/kg	1700	3200	ND	ND	
C9- C10 Aromatics (Unadj.)	ug/kg	570	1100	ND	ND	
Sample Surrogate Acceptance Range				70-130%	70-130%	
Aliphatic Surrogate % Recovery - FID				115	109	
Aromatic Surrogate % Recovery - PID				117	112	
* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range. MDL = Method Detection Limit RL = Reporting Limit						

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?
Were any significant modifications to the VPH method made?

Yes
No

Table 4.3 (cont.)
EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
 Project Name: Camp Lejeune-H-30
 Site Location: _____

Laboratory Name: Accutest Southeast
 NC Certification # (Lab):
 Sample Matrix : Soil

Sample Information and Analytical Results					
Method for Ranges: MADEP-EPH-98-1		Sample Identification		H-30-006	
EPH Surrogate Standards		Date Collected		05/18/2005	
Aliphatic:	1-Chlorooctadecane	Date Received		05/19/2005	
Aromatic:	o-Terphenyl	Date Extracted		05/20/2005	
EPH Fractionation Surrogates		Date Analyzed		05/26/2005	
#1:	2-Fluorobiphenyl	% Dry Solids		83.6	
#2:	2-Bromonaphthalene	Dilution Factor		1	
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK	
C9-C18 Aliphatics	ug/kg	7800	7800	ND	ND
C19-C36 Aliphatics	ug/kg	7800	7800	ND	ND
C11-C22 Aromatics (Unadj.)	ug/kg	7800	7800	ND	ND
Sample Surrogate Acceptance Range				40-140	40-140
Aliphatic Surrogate % Recovery				64	70
Aromatic Surrogate % Recovery				92	100
Fractionation Surrogate Acceptance Range					
Fractionation Surrogate #1 % Recovery				77	93
Fractionation Surrogate #2 % Recovery				42	88
* Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.					
MDL = Method Detection Limit RL = Reporting Limit					

EPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?
Was blank correction applied as a significant modification of the method?
Were any significant modifications to the eph method made?

Yes
 Yes
 No

Table 4.3 (cont.)
VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Shaw E & I, Inc.
 Project Name: Camp Lejeune-H-30
 Site Location: _____

Laboratory Name: Accutest Southeast
 NC Certification # (Lab): 573
 Sample Matrix : Soil

Sample Information and Analytical Results							
Method for Ranges: MADEP VPH VPH Surrogate Standards Aliphatic: BFB Aromatic: BFB		Sample Identification			H-30-006		
		Collection Option (for soil)*			1		
		Date Collected			05/18/2005		
		Date Received			05/19/2005		
		Date Extracted			05/19/2005		
		Date Analyzed			05/24/2005		
		% Dry Solids			83.6		
		Dilution Factor			1		
Hydrocarbon Ranges	Units of Measure	MDL	RL	BLANK			
C5- C8 Aliphatics (Unadj.)	ug/kg	2200	4100	ND	ND		
C9- C12 Aliphatics (Unadj.)	ug/kg	1600	3000	ND	ND		
C9- C10 Aromatics (Unadj.)	ug/kg	550	1100	ND	ND		
Sample Surrogate Acceptance Range				70-130%	70-130%		
Aliphatic Surrogate % Recovery - FID				115	95		
Aromatic Surrogate % Recovery - PID				117	97		

* Option 1 = Established fill line on vial Option 2 = Sampling Device (indicate brand, e.g. EnCore™) Option 3 = Field weight of soil
 ** Unadjusted value. Should exclude the concentration of any surrogate(s), internal standards, and/or concentrations of other ranges that elute within the specified range.
 MDL = Method Detection Limit RL = Reporting Limit

VPH rev. 11/00

Were all performance/acceptance standards for required QA/QC procedures achieved?
Were any significant modifications to the VPH method made?

Yes
No

Table 4.4

**Building H-30 Excavation
MADEP-EPH/VPH Summary Confirmation Soil Sample Analytical Results**

Method for Ranges: MADEP-EPH/VPH		Sample Identification			H-30-001	H-30-002	H-30-003	H-30-004	H-30-005	H-30-006
Hydrocarbon Ranges	Units	Residential	Industrial	Soil to Water	North Sidewall	South Sidewall	East Sidewall	West Sidewall	Floor	West Sidewall Dup
C9-C18 Aliphatics	mg/kg	9,386	245,280	3,255	<7.7	<8.1	524	<7.9	154	<7.8
C19-C36 Aliphatics	mg/kg	93,860	#	#	<7.7	<8.1	122	<7.9	40.6	<7.8
C9-C22 Aromatics (Unadj.)	mg/kg	469	12,264	34	<7.7	<8.1	116	<7.9	61.7	<7.8
C5-C8 Aliphatics	mg/kg	939	24,528	72	<4.2	<4.4	<4.1	<3.9	<4.3	<4.1
# = Health Based Level >100% Solubility Bold Indicates a Detection Shaded Indicates Above Residential SCL										

FIGURES

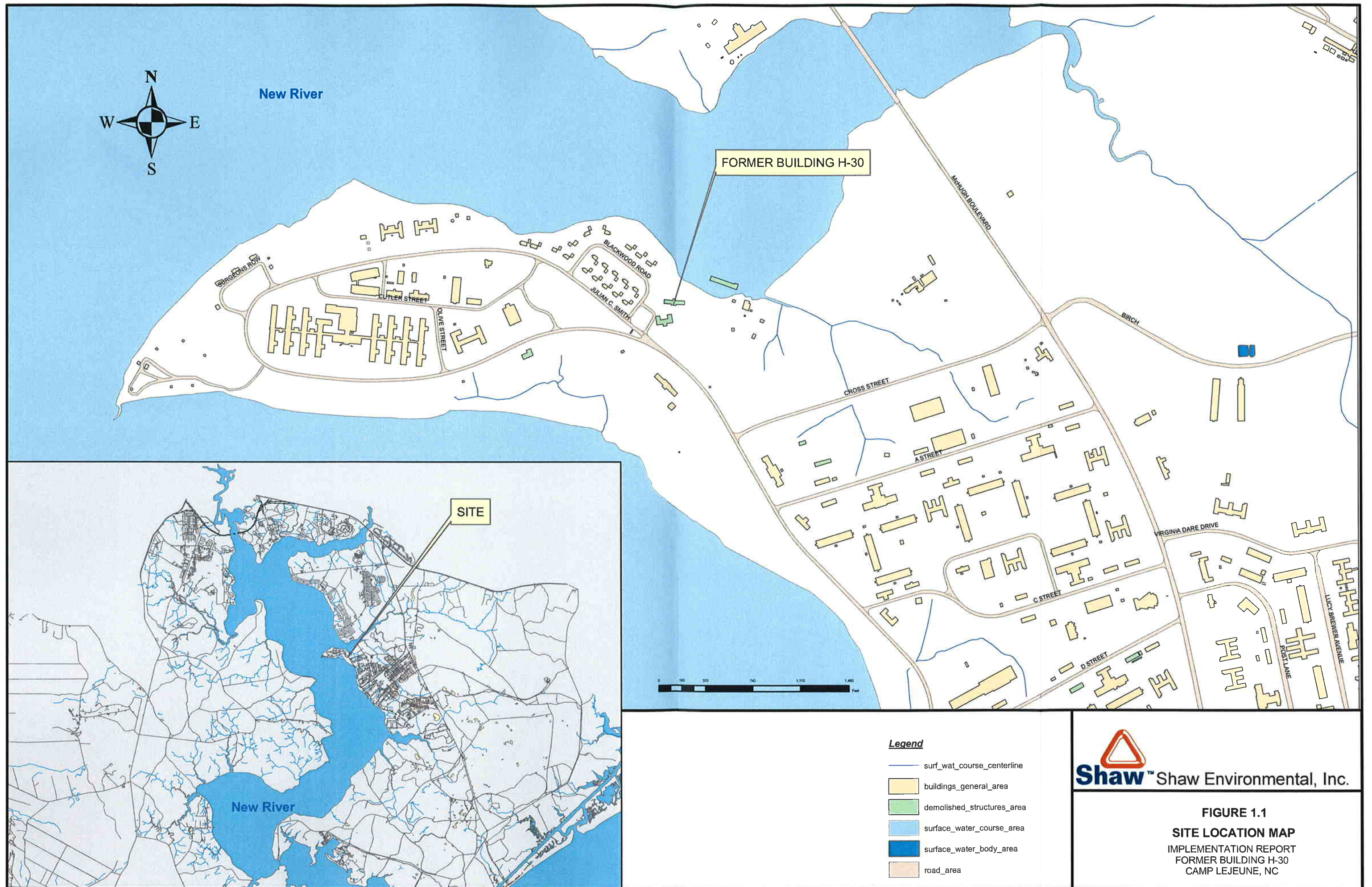
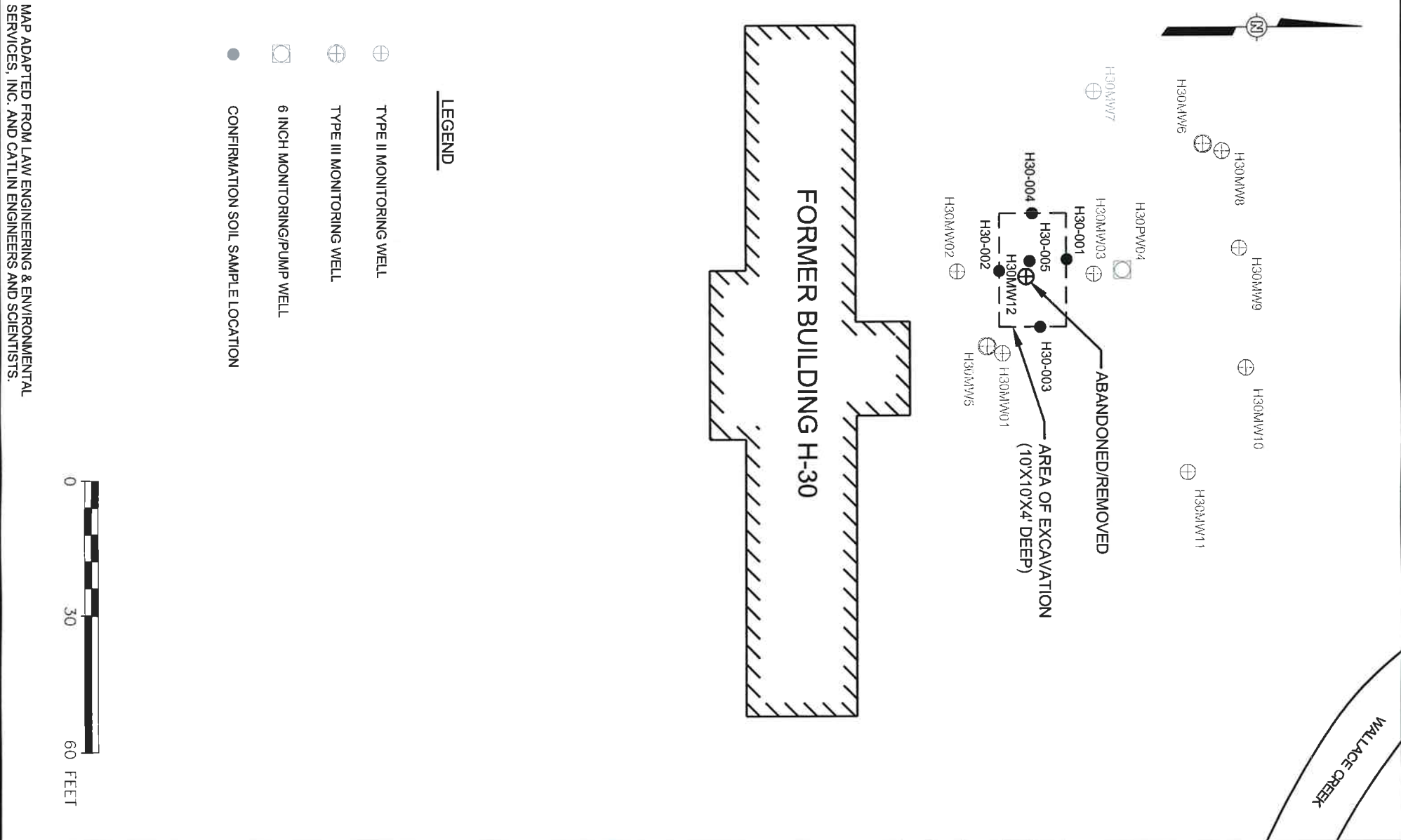


FIGURE 1.1
SITE LOCATION MAP
IMPLEMENTATION REPORT
FORMER BUILDING H-30
CAMP LEJEUNE, NC

PLOT DATE: ??/??/99
FORMAT REVISION 3/25/99

IMAGE	X-REF	OFFICE	DRAWING NUMBER
---	---	Alpharetta, GA	H-30-FIG1-2

MAP ADAPTED FROM LAW ENGINEERING & ENVIRONMENTAL SERVICES, INC. AND CATLIN ENGINEERS AND SCIENTISTS.



DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND		PROJECT NO. 112768	
NAVAL STATION		ATLANTIC DIVISION		NORFOLK, VIRGINIA	
MCB CAMP LEJEUNE		JACKSONVILLE, N.C.			
BUILDING H-30 SITE MAP		EXCAVATION PLAN		DESIGNED BY	
				DRAWN BY	
				CHECKED BY	
				APPROVED BY	
				REV	
				DATE	
				BY	
				CHK'D	
				APR'VD	
				DESCRIPTION/ISSUE	
				REVISIONS	

SCALE:	AS SHOWN	SITE:	A
DETAILED ORDER NO.	D40	CONSTR. CONTRACT NO.	N62470-02-D-3260
NAVJAG DRAWING NO.	2		
SHEET 1.0.			

FIGURE 1.2

APPENDIX A

Field Implementation Photographs



Excavation Vicinity (just beyond tree line)



Monitoring Well USTH30-MW12



Excavation Approximately 4 Feet Deep



Excavation with Exposed Utility Lines (looking north)



Excavation Looking South



Final Site Restoration

APPENDIX B

Monitoring Well Abandonment Form

WELL ABANDONMENT RECORD

Well Contractor: MANN DRILLING COMPANY
Well Contractor Certification # 2156

MW-12

1. WELL USE (check applicable box) residential municipal industrial agricultural x monitoring recovery
Heat pump water injection other if other, list use: _____

2. WELL LOCATION: (show a sketch of the location on back of form)

Nearest Town: CAMP LEJEUNE County: ONSLOW

JULIAN C. SMITH RD LDG H-30
(Road, community, Subdivision, Lot No.)

3. OWNER: COMMANDING GENERAL

4. ADDRESS: PO BOX 8116 CAMP LEJEUNE NC 28547

5. TOPOGRAPHY: draw, slope, hilltop, valley, flat

6. TOTAL DEPTH: 13 DIAMETER: 2

7. CASING REMOVED:

	Feet		diameter
	3	RISER	2
	10	SCREEN	2

8. DISINFECTION: NONE (HYDROCARBONS)

(amount of 70% hypochlorite used)

9. SEALING MATERIAL:

Neat cement	sand cement
Bags of cement: _____	bags of cement _____
Gals. Of water: _____	yds. Of sand _____
	Gals. Of water _____

OTHER:

Type material: BENTONITE CHIP
Amount: 25 LBS.

10. EXPLAIN METHOD EMPLACEMENT OF MATERIAL:

FILLED WELL WITH BENTONITE CHIPS AND HYDRATED
WITH WATER

11. DATE WELL ABANDONED: 5/18/05

I do hereby certify that this well was abandoned in accordance with 15A NCAC 2C, well construction Standards, and that a copy of the record has been provided to the well owner.

Signature of person abandoning the well [Signature] Date 5/23/05

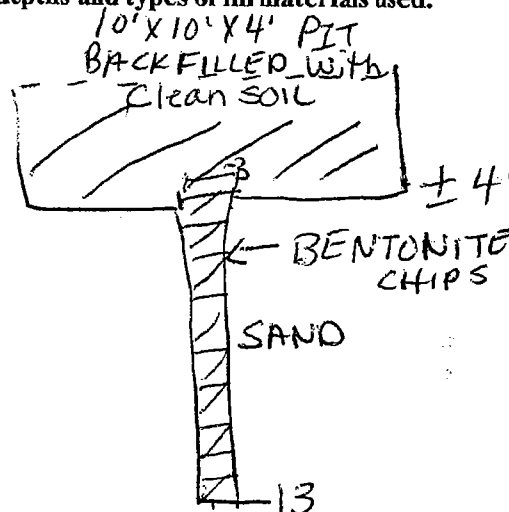
WELL LOCATION:

Draw a location sketch on the reverse of this sheet, showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

Submit original to the Division of Water Quality, Groundwater section, one copy to the owner within 30 days from completion of abandonment.
GW-30 Revised 12/99

Quadrangle No.

WELL DIAGRAM: Draw a detailed sketch of The well showing total depth, depth and diameter of screens remaining in the well, gravel intervals, intervals of casing perforations, and depths and types of fill materials used.



APPENDIX C

Soil Disposal Laboratory Analytical Reports



05/25/05

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-H-30

112768

Accutest Job Number: F31976

Sampling Date: 05/18/05

Report to:

Shaw E & I, Inc.

natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 49



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
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Table of Contents

Sections:

1
2
3
4
5
6
7
8
9
10

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: F31976-1: H30-007	4
Section 3: Misc. Forms	12
3.1: Chain of Custody	13
Section 4: GC/MS Volatiles - QC Data Summaries	15
4.1: Leachate Blank Summary	16
4.2: Blank Spike Summary	17
Section 5: GC/MS Semi-volatiles - QC Data Summaries	18
5.1: Leachate Blank Summary	19
5.2: Blank Spike Summary	20
5.3: Matrix Spike/Matrix Spike Duplicate Summary	21
5.4: Duplicate Summary	22
Section 6: GC Volatiles - QC Data Summaries	23
6.1: Method Blank Summary	24
6.2: Blank Spike Summary	25
6.3: Matrix Spike/Matrix Spike Duplicate Summary	26
Section 7: GC Semi-volatiles - QC Data Summaries	27
7.1: Method Blank Summary	28
7.2: Leachate Blank Summary	30
7.3: Blank Spike Summary	31
7.4: Matrix Spike/Matrix Spike Duplicate Summary	33
Section 8: Metals Analysis - QC Data Summaries	35
8.1: Prep QC MP8052: Hg	36
8.2: Prep QC MP8060: As,Ba,Cd,Cr,Pb,Se,Ag	39
Section 9: GC Semi-volatiles - QC Data (Accutest Laboratories Gulf Coast, Inc.)	43
9.1: Method Blank Summary	44
9.2: Blank Spike Summary	45
9.3: Matrix Spike Summary	46
Section 10: General Chemistry - QC Data (Accutest New Jersey)	47
10.1: Method Blank and Spike Results Summary	48
10.2: Duplicate Results Summary	49



Sample Summary

Shaw E & I, Inc.

Job No: F31976

Camp Lejeune-H-30
Project No: 112768

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
F31976-1	05/18/05	16:10 MM	05/19/05	SO Soil	H30-007

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

Report of Analysis

Page 1 of 1

2.1

2

Client Sample ID: H30-007
 Lab Sample ID: F31976-1
 Matrix: SO - Soil
 Method: SW846 8260B SW846 5030A
 Project: Camp Lejeune-H-30

Date Sampled: 05/18/05
 Date Received: 05/19/05
 Percent Solids: 84.5

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J015832.D	10	05/25/05	JG	05/20/05	OP13375	VJ664
Run #2							

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

VOA TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
71-43-2	Benzene	ND	D018	0.50	0.010	0.0050	mg/l	
108-90-7	Chlorobenzene	ND	D021	100	0.020	0.0050	mg/l	
67-66-3	Chloroform	ND	D022	6.0	0.020	0.0050	mg/l	
56-23-5	Carbon tetrachloride	ND	D019	0.50	0.020	0.0050	mg/l	
75-35-4	1,1-Dichloroethylene	ND	D029	0.70	0.020	0.0050	mg/l	
107-06-2	1,2-Dichloroethane	ND	D028	0.50	0.020	0.0050	mg/l	
106-46-7	p-Dichlorobenzene	ND	D027	7.5	0.020	0.0050	mg/l	
78-93-3	Methyl ethyl ketone	ND	D035	200	0.10	0.025	mg/l	
127-18-4	Tetrachloroethylene	ND	D039	0.70	0.020	0.0050	mg/l	
79-01-6	Trichloroethylene	ND	D040	0.50	0.020	0.0050	mg/l	
75-01-4	Vinyl chloride	ND	D043	0.20	0.010	0.0050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		86-115%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	101%		83-119%
17060-07-0	1,2-Dichloroethane-D4	100%		73-126%

ND = Not detected MDL - Method Detection Limit
 MCL = Maximum Contamination Level (40 CFR 261 6/96)
 E = Indicates value exceeds calibration range

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

Report of Analysis

Page 1 of 1

2.1

2

Client Sample ID: H30-007

Lab Sample ID: F31976-1

Date Sampled: 05/18/05

Matrix: SO - Soil

Date Received: 05/19/05

Method: SW846 8270C SW846 1311

Percent Solids: 84.5

Project: Camp Lejeune-H-30

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009864.D	1	05/24/05	NJ	05/23/05	OP13394	SF559
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

ABN TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
95-48-7	2-Methylphenol	ND	D023	200	0.050	0.020	mg/l	
	3&4-Methylphenol	ND	D024	200	0.050	0.020	mg/l	
87-86-5	Pentachlorophenol	ND	D037	100	0.25	0.10	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	D041	400	0.050	0.020	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	D042	2.0	0.050	0.020	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	D027	7.5	0.050	0.010	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	D030	0.13	0.050	0.020	mg/l	
118-74-1	Hexachlorobenzene	ND	D032	0.13	0.050	0.010	mg/l	
87-68-3	Hexachlorobutadiene	ND	D033	0.50	0.050	0.020	mg/l	
67-72-1	Hexachloroethane	ND	D034	3.0	0.050	0.020	mg/l	
98-95-3	Nitrobenzene	ND	D036	2.0	0.050	0.010	mg/l	
110-86-1	Pyridine	ND	D038	5.0	0.10	0.030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		19-90%
4165-62-2	Phenol-d5	35%		10-68%
118-79-6	2,4,6-Tribromophenol	94%		36-137%
4165-60-0	Nitrobenzene-d5	86%		49-119%
321-60-8	2-Fluorobiphenyl	87%		45-118%
1718-51-0	Terphenyl-d14	88%		46-135%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range

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

Report of Analysis

Page 1 of 1

2.1

2

Client Sample ID:	H30-007	Date Sampled:	05/18/05
Lab Sample ID:	F31976-1	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	84.5
Method:	SW846 8015 SW846 5030A		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	HH014396.D	1	05/23/05	AL	05/19/05 14:45	n/a	GHH623
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.60 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	6.2	3.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		62-135%
98-08-8	aaa-Trifluorotoluene	85%		65-118%

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

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

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

Report of Analysis

Page 1 of 1

Client Sample ID:	H30-007	Date Sampled:	05/18/05
Lab Sample ID:	F31976-1	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	84.5
Method:	SW846 8081A SW846 1311		
Project:	Camp Lejeune-H-30		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	KK07480.D	1	05/24/05	AA	05/23/05	OP13395	GKK297
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

Pesticide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
58-89-9	gamma-BHC (Lindane)	ND	D013	0.40	0.00050	0.00020	mg/l	
12789-03-6	Chlordane	ND	D020	0.030	0.0050	0.0025	mg/l	
72-20-8	Endrin	ND	D012	0.020	0.0010	0.00040	mg/l	
76-44-8	Heptachlor	ND	D031	0.0080	0.00050	0.00020	mg/l	
1024-57-3	Heptachlor epoxide	ND	D031	0.0080	0.00050	0.00010	mg/l	
72-43-5	Methoxychlor	ND	D014	10	0.0010	0.00040	mg/l	
8001-35-2	Toxaphene	ND	D015	0.50	0.025	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	94%		60-138%
2051-24-3	Decachlorobiphenyl	91%		31-148%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261.6/96)
E = Indicates value exceeds calibration range

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

Report of Analysis

Page 1 of 1

2.1

2

Client Sample ID: H30-007

Lab Sample ID: F31976-1

Date Sampled: 05/18/05

Matrix: SO - Soil

Date Received: 05/19/05

Method: SW846 8015 M SW846 3550B

Percent Solids: 84.5

Project: Camp Lejeune-H-30

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF16947.D	1	05/23/05	SM	05/23/05	OP13384	GZF795
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28) ^a	9.22	9.7	5.8	mg/kg	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	79%		57-115%		

(a) Petroleum hydrocarbon pattern extends beyond C28.

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

2.1

2

Client Sample ID:	H30-007	Date Sampled:	05/18/05
Lab Sample ID:	F31976-1	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	84.5
Method:	SW846 8151 SW846 1311		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	GG22891.D	1	05/25/05	ATX	05/23/05	T:OP4588	T:GGG714
Run #2							

Run #	Initial Volume	Final Volume
Run #1	100 ml	10.0 ml
Run #2		

Herbicide TCLP Leachate

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
94-75-7	2,4-D	ND	D016	10	0.015	0.011	mg/l	
93-72-1	2,4,5-TP (Silvex)	ND	D017	1.0	0.0020	0.00060	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	79%		23-171%

(a) Analysis performed at Accutest Laboratories, Houston, TX.

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates 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: H30-007	Date Sampled: 05/18/05
Lab Sample ID: F31976-1	Date Received: 05/19/05
Matrix: SO - Soil	Percent Solids: 84.5
Project: Camp Lejeune-H-30	

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed By	Method
Arsenic	0.0029 U	D004	5.0	0.010	0.0029	mg/l	1	05/23/05	05/24/05 RS	SW846 6010B ²
Barium	0.20 U	D005	100	1.0	0.20	mg/l	1	05/23/05	05/24/05 RS	SW846 6010B ²
Cadmium	0.00060 U	D006	1.0	0.0050	0.00060	mg/l	1	05/23/05	05/24/05 RS	SW846 6010B ²
Chromium	0.00058 B	D007	5.0	0.010	0.00050	mg/l	1	05/23/05	05/24/05 RS	SW846 6010B ²
Lead	0.013 B	D008	5.0	0.050	0.0012	mg/l	1	05/23/05	05/24/05 RS	SW846 6010B ²
Mercury	0.00052 U	D009	0.20	0.010	0.00052	mg/l	1	05/22/05	05/22/05 JM	SW846 7470A ¹
Selenium	0.020 U	D010	1.0	0.050	0.020	mg/l	1	05/23/05	05/24/05 RS	SW846 6010B ²
Silver	0.00090 U	D011	5.0	0.010	0.00090	mg/l	1	05/23/05	05/24/05 RS	SW846 6010B ²

(1) Instrument QC Batch: MA4351

(2) Instrument QC Batch: MA4354

(3) Prep QC Batch: MP8052

(4) Prep QC Batch: MP8060

RL = Reporting Limit MDL = Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	H30-007	Date Sampled:	05/18/05
Lab Sample ID:	F31976-1	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	84.5
Project:	Camp Lejeune-H-30		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Corrosivity as pH	5.5			1	05/20/05	LM	SW846 CHAP7
Cyanide Reactivity ^a	< 5.9	5.9	mg/kg	1	05/24/05 13:15	ANJ	SW846 CHAP7
Ignitability (Flashpoint) ^a	> 200		Deg. F	1	05/24/05	ANJ	SW846 CHAP7
Solids, Percent	84.5		%	1	05/20/05	LM	EPA 160.3 M
Sulfide Reactivity ^a	< 59	59	mg/kg	1	05/25/05	ANJ	SW846 CHAP7

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

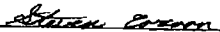
COC Number:
112768-H30-051805-2



Shaw Environmental & Infrastructure, Inc.

CHAIN-OF-CUSTODY RECORD

Shaw E & I - Piney Green Rd. Lot 203 Bldg 626 - 910-451-2390											Receiving LAB: ACCUTEST													
Project Name				Project Location							Analysis Desired													
CAMP LEJEUNE - H-30				CAMP LEJEUNE, NC																				
Project Number		Contact		P.O. Number		Reviewed by																		
112768		Mark Martin		84879																				
Client Rep				Project Manager																				
US NAVY - LANTDIV				Ron Kenyon																				
Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description		Number of Containers	Full TCLP	I/C	TPH (DRO/GRO)													
①	H30-007	5/18/05	1610		X	StockPile		2	X	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 8481 5073 8030	5/18/05	16:00	5 Day TAT SUMMARY PACKAGE
2		FX		5-19-05	8:45	
3						

1.2

F31976: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: **F31976** CLIENT: Shaw E+J PROJECT: Comp Levee (112769)
 DATE/TIME RECEIVED: 5-19-05 / 8:45 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1, 2
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: 8481 5073 8030

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

SOIL INFORMATION

NUMBER OF ENCORES ? 22
 NUMBER OF 5035 FIELD KITS ? 22
 SUMMARY OF COMMENTS: _____

SAMPLE INFORMATION

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

TECHNICIAN SIGNATURE/DATE Stana Brown / 5-19-05 TECHNICIAN SIGNATURE/DATE [Signature]

ASB002/04/06

F31976: Chain of Custody

Page 2 of 2

APPENDIX D

Former Building H-30 Soil Disposal Manifest

APPENDIX E

Former Building H-30 Site Confirmation Soil Sample Laboratory Analytical Reports



05/27/05

Technical Report for

Shaw E & I, Inc.

Camp Lejeune-H-30

112768

Accutest Job Number: F31972

Sampling Date: 05/18/05

Report to:

Shaw E & I, Inc.
5700 Thurston Ave. Suite 116-B
Virginia Beach, VA 23455
natasha.sullivan@shawgrp.com

ATTN: Natasha Sullivan

Total number of pages in report: 88



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
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
This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Table of Contents

Sections:

1

2

3

4

5

6

7

-1-

Section 1: Sample Summary	3
Section 2: Sample Results	4
2.1: F31972-1: H-30-001	4
2.2: F31972-2: H-30-002	11
2.3: F31972-3: H-30-003	18
2.4: F31972-4: H-30-004	25
2.5: F31972-5: H-30-005	32
2.6: F31972-6: H-30-006	39
2.7: F31972-7: H30-TRIP BLANK	46
Section 3: Misc. Forms	48
3.1: Chain of Custody	49
Section 4: GC/MS Volatiles - QC Data Summaries	51
4.1: Method Blank Summary	52
4.2: Blank Spike Summary	56
4.3: Matrix Spike/Matrix Spike Duplicate Summary	60
Section 5: GC/MS Semi-volatiles - QC Data Summaries	64
5.1: Method Blank Summary	65
5.2: Blank Spike Summary	71
5.3: Matrix Spike/Matrix Spike Duplicate Summary	74
Section 6: GC Volatiles - QC Data Summaries	77
6.1: Method Blank Summary	78
6.2: Blank Spike Summary	79
6.3: Matrix Spike/Matrix Spike Duplicate Summary	80
6.4: Duplicate Summary	81
Section 7: GC Semi-volatiles - QC Data Summaries	82
7.1: Method Blank Summary	83
7.2: Blank Spike Summary	85
7.3: Matrix Spike/Matrix Spike Duplicate Summary	87
7.4: Duplicate Summary	88

Sample Summary

Shaw E & I, Inc.

Job No: F31972

Camp Lejeune-H-30
Project No: 112768

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
F31972-1	05/18/05	15:30 MM	05/19/05	SO Soil	H-30-001
F31972-2	05/18/05	15:40 MM	05/19/05	SO Soil	H-30-002
F31972-3	05/18/05	15:50 MM	05/19/05	SO Soil	H-30-003
F31972-4	05/18/05	16:00 MM	05/19/05	SO Soil	H-30-004
F31972-5	05/18/05	16:10 MM	05/19/05	SO Soil	H-30-005
F31972-6	05/18/05	16:00 MM	05/19/05	SO Soil	H-30-006
F31972-7	05/18/05	00:00 MM	05/19/05	AQ Trip Blank Soil	H30-TRIP BLANK

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

Report of Analysis

Client Sample ID:	H-30-001	Date Sampled:	05/18/05
Lab Sample ID:	F31972-1	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.1
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H030850.D	1	05/19/05	NAF	05/19/05 13:00	n/a	VH1166
Run #2							

Run #	Initial Weight
Run #1	5.94 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	49	24	ug/kg	
71-43-2	Benzene	ND	4.9	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	2.0	ug/kg	
75-25-2	Bromoform	ND	4.9	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	2.0	ug/kg	
75-00-3	Chloroethane	ND	4.9	2.0	ug/kg	
67-66-3	Chloroform	ND	4.9	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	4.9	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.9	2.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	4.9	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.9	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.9	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	2.0	ug/kg	
591-78-6	2-Hexanone	ND	24	9.8	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	24	9.8	ug/kg	
74-83-9	Methyl bromide	ND	4.9	2.0	ug/kg	
74-87-3	Methyl chloride	ND	4.9	2.0	ug/kg	
75-09-2	Methylene chloride	ND	9.8	4.9	ug/kg	
78-93-3	Methyl ethyl ketone	ND	24	9.8	ug/kg	
100-42-5	Styrene	ND	4.9	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.9	2.0	ug/kg	
108-88-3	Toluene	ND	4.9	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	4.9	2.0	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

Report of Analysis

Page 2 of 2

2.1

2

Client Sample ID:	H-30-001	Date Sampled:	05/18/05
Lab Sample ID:	F31972-1	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.1
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	4.9	2.4	ug/kg	
1330-20-7	Xylene (total)	ND	15	4.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		78-123%
2037-26-5	Toluene-D8	104%		71-137%
460-00-4	4-Bromofluorobenzene	104%		61-157%
17060-07-0	1,2-Dichloroethane-D4	99%		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

Report of Analysis

Client Sample ID:	H-30-001	Date Sampled:	05/18/05
Lab Sample ID:	F31972-1	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.1
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026092.D	1	05/23/05	ME	05/20/05	OP13371	SL1377
Run #2							

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

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	920	370	ug/kg	
95-57-8	2-Chlorophenol	ND	180	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	37	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	920	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	370	73	ug/kg	
95-48-7	2-Methylphenol	ND	180	37	ug/kg	
	3&4-Methylphenol	ND	180	37	ug/kg	
88-75-5	2-Nitrophenol	ND	180	37	ug/kg	
100-02-7	4-Nitrophenol	ND	920	370	ug/kg	
87-86-5	Pentachlorophenol	ND	920	370	ug/kg	
108-95-2	Phenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	37	ug/kg	
83-32-9	Acenaphthene	ND	180	37	ug/kg	
208-96-8	Acenaphthylene	ND	180	37	ug/kg	
120-12-7	Anthracene	ND	180	37	ug/kg	
56-55-3	Benzo(a)anthracene	ND	180	37	ug/kg	
50-32-8	Benzo(a)pyrene	ND	180	37	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	180	37	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	180	73	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	180	37	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	180	37	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	370	92	ug/kg	
100-51-6	Benzyl Alcohol	ND	180	37	ug/kg	
91-58-7	2-Chloronaphthalene	ND	180	37	ug/kg	
106-47-8	4-Chloroaniline	ND	370	150	ug/kg	
86-74-8	Carbazole	ND	180	37	ug/kg	
218-01-9	Chrysene	ND	180	37	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	180	37	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	180	73	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

Report of Analysis

Client Sample ID:	H-30-001	Date Sampled:	05/18/05
Lab Sample ID:	F31972-1	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.1
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	180	37	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	37	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	180	37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	180	37	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	180	37	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	180	73	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	180	73	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	370	180	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	180	73	ug/kg	
132-64-9	Dibenzofuran	ND	180	37	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	92	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	370	180	ug/kg	
84-66-2	Diethyl phthalate	ND	370	92	ug/kg	
131-11-3	Dimethyl phthalate	ND	370	92	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	370	180	ug/kg	
206-44-0	Fluoranthene	ND	180	37	ug/kg	
86-73-7	Fluorene	ND	180	37	ug/kg	
118-74-1	Hexachlorobenzene	ND	180	37	ug/kg	
87-68-3	Hexachlorobutadiene	ND	180	73	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	180	73	ug/kg	
67-72-1	Hexachloroethane	ND	180	73	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	180	73	ug/kg	
78-59-1	Isophorone	ND	180	37	ug/kg	
91-57-6	2-Methylnaphthalene	ND	180	37	ug/kg	
88-74-4	2-Nitroaniline	ND	370	92	ug/kg	
99-09-2	3-Nitroaniline	ND	370	92	ug/kg	
100-01-6	4-Nitroaniline	ND	370	130	ug/kg	
91-20-3	Naphthalene	ND	180	37	ug/kg	
98-95-3	Nitrobenzene	ND	180	37	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	180	73	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	37	ug/kg	
85-01-8	Phenanthrene	ND	180	37	ug/kg	
129-00-0	Pyrene	ND	180	73	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	180	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		45-114%
4165-62-2	Phenol-d5	68%		44-124%
118-79-6	2,4,6-Tribromophenol	81%		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

Report of Analysis

Client Sample ID:	H-30-001	Date Sampled:	05/18/05
Lab Sample ID:	F31972-1	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.1
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		41-123%
321-60-8	2-Fluorobiphenyl	74%		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

Report of Analysis

Page 1 of 1

Client Sample ID:	H-30-001	Date Sampled:	05/18/05
Lab Sample ID:	F31972-1	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.1
Method:	MADEP VPH		
Project:	Camp Lejeune-H-30		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV017144.D	1	05/24/05	RAW	n/a	n/a	GUV1011
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.31 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	2200	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	113%		70-130%
460-00-4	BFB	108%		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

Report of Analysis

Page 1 of 1

2.1

2

Client Sample ID: H-30-001

Lab Sample ID: F31972-1

Date Sampled: 05/18/05

Matrix: SO - Soil

Date Received: 05/19/05

Method: MADEP-EPH-98-1 SW846 3550B

Percent Solids: 86.1

Project: Camp Lejeune-H-30

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF16983.D	1	05/25/05	SM	05/20/05	OP13368	GZF797
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	7700	7700	ug/kg	
	C9-C18 Aliphatics	ND	7700	7700	ug/kg	
	C19-C36 Aliphatics	ND	7700	7700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	61%		40-140%
580-13-2	2-Bromonaphthalene	83%		40-140%
84-15-1	o-Terphenyl	77%		40-140%
321-60-8	2-Fluorobiphenyl	89%		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

Report of Analysis

Page 1 of 2

2.2

2

Client Sample ID:	H-30-002	Date Sampled:	05/18/05
Lab Sample ID:	F31972-2	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H030851.D	1	05/19/05	NAF	05/19/05 13:00	n/a	VH1166
Run #2							

Run #	Initial Weight
Run #1	5.69 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	54	27	ug/kg	
71-43-2	Benzene	ND	5.4	2.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	2.1	ug/kg	
75-25-2	Bromoform	ND	5.4	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	2.1	ug/kg	
75-00-3	Chloroethane	ND	5.4	2.1	ug/kg	
67-66-3	Chloroform	ND	5.4	2.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	2.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	3.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	2.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	2.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	2.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	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	5.4	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.4	2.1	ug/kg	
75-09-2	Methylene chloride	ND	11	5.4	ug/kg	
78-93-3	Methyl ethyl ketone	ND	27	11	ug/kg	
100-42-5	Styrene	ND	5.4	2.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	2.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	2.1	ug/kg	
108-88-3	Toluene	ND	5.4	2.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	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

Report of Analysis

Client Sample ID:	H-30-002	Date Sampled:	05/18/05
Lab Sample ID:	F31972-2	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	5.4	2.7	ug/kg	
1330-20-7	Xylene (total)	ND	16	4.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		78-123%
2037-26-5	Toluene-D8	98%		71-137%
460-00-4	4-Bromofluorobenzene	100%		61-157%
17060-07-0	1,2-Dichloroethane-D4	107%		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

Report of Analysis

Client Sample ID:	H-30-002	Date Sampled:	05/18/05
Lab Sample ID:	F31972-2	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026093.D	1	05/23/05	ME	05/20/05	OP13371	SL1377
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.4 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

RL = Reporting Limit

E = Indicates 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:	H-30-002	Date Sampled:	05/18/05
Lab Sample ID:	F31972-2	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

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	70%		45-114%
4165-62-2	Phenol-d5	70%		44-124%
118-79-6	2,4,6-Tribromophenol	82%		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

Report of Analysis

Client Sample ID:	H-30-002	Date Sampled:	05/18/05
Lab Sample ID:	F31972-2	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		41-123%
321-60-8	2-Fluorobiphenyl	73%		46-122%
1718-51-0	Terphenyl-d14	73%		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

Report of Analysis

Page 1 of 1

2.2

2

Client Sample ID:	H-30-002	Date Sampled:	05/18/05
Lab Sample ID:	F31972-2	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	MADEP VPH		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV017145.D	1	05/24/05	RAW	n/a	n/a	GUV1011
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.36 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4400	2300	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3200	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1200	580	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
460-00-4	BFB	108%		70-130%		
460-00-4	BFB	105%		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

Report of Analysis

Page 1 of 1

2.2

2

Client Sample ID: H-30-002

Lab Sample ID: F31972-2

Date Sampled: 05/18/05

Matrix: SO - Soil

Date Received: 05/19/05

Method: MADEP-EPH-98-1 SW846 3550B

Percent Solids: 82.0

Project: Camp Lejeune-H-30

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF16984.D	1	05/25/05	SM	05/20/05	OP13368	GZF797
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	8100	8100	ug/kg	
	C9-C18 Aliphatics	ND	8100	8100	ug/kg	
	C19-C36 Aliphatics	ND	8100	8100	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
3386-33-2	1-Chlorooctadecane	63%		40-140%		
580-13-2	2-Bromonaphthalene	73%		40-140%		
84-15-1	o-Terphenyl	80%		40-140%		
321-60-8	2-Fluorobiphenyl	83%		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

Report of Analysis

Page 1 of 2

2.3

2

Client Sample ID:	H-30-003	Date Sampled:	05/18/05
Lab Sample ID:	F31972-3	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.4
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H030852.D	1	05/19/05	NAF	05/19/05 13:06	n/a	VH1166
Run #2							

Run #	Initial Weight
Run #1	5.03 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	58	29	ug/kg	
71-43-2	Benzene	ND	5.8	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	2.3	ug/kg	
75-25-2	Bromoform	ND	5.8	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.8	2.3	ug/kg	
67-66-3	Chloroform	ND	5.8	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	2.3	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.8	3.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.8	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.8	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.8	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	5.8	2.3	ug/kg	
591-78-6	2-Hexanone	ND	29	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	29	12	ug/kg	
74-83-9	Methyl bromide	ND	5.8	2.3	ug/kg	
74-87-3	Methyl chloride	ND	5.8	2.3	ug/kg	
75-09-2	Methylene chloride	ND	12	5.8	ug/kg	
78-93-3	Methyl ethyl ketone	ND	29	12	ug/kg	
100-42-5	Styrene	ND	5.8	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.8	2.3	ug/kg	
108-88-3	Toluene	ND	5.8	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.8	2.3	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

Report of Analysis

Client Sample ID:	H-30-003	Date Sampled:	05/18/05
Lab Sample ID:	F31972-3	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.4
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	5.8	2.9	ug/kg	
1330-20-7	Xylene (total)	ND	17	5.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		78-123%
2037-26-5	Toluene-D8	100%		71-137%
460-00-4	4-Bromofluorobenzene	113%		61-157%
17060-07-0	1,2-Dichloroethane-D4	104%		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

Report of Analysis

Page 1 of 3

Client Sample ID:	H-30-003	Date Sampled:	05/18/05
Lab Sample ID:	F31972-3	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.4
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026094.D	1	05/23/05	ME	05/20/05	OP13371	SL1377
Run #2							

Run #	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	960	390	ug/kg	
95-57-8	2-Chlorophenol	ND	190	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	39	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	39	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	960	390	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	390	77	ug/kg	
95-48-7	2-Methylphenol	ND	190	39	ug/kg	
	3&4-Methylphenol	ND	190	39	ug/kg	
88-75-5	2-Nitrophenol	ND	190	39	ug/kg	
100-02-7	4-Nitrophenol	ND	960	390	ug/kg	
87-86-5	Pentachlorophenol	ND	960	390	ug/kg	
108-95-2	Phenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	39	ug/kg	
83-32-9	Acenaphthene	ND	190	39	ug/kg	
208-96-8	Acenaphthylene	ND	190	39	ug/kg	
120-12-7	Anthracene	ND	190	39	ug/kg	
56-55-3	Benzo(a)anthracene	ND	190	39	ug/kg	
50-32-8	Benzo(a)pyrene	ND	190	39	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	190	39	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	190	77	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	190	39	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	190	39	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	390	96	ug/kg	
100-51-6	Benzyl Alcohol	ND	190	39	ug/kg	
91-58-7	2-Chloronaphthalene	ND	190	39	ug/kg	
106-47-8	4-Chloroaniline	ND	390	150	ug/kg	
86-74-8	Carbazole	ND	190	39	ug/kg	
218-01-9	Chrysene	ND	190	39	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	190	39	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	190	77	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

Report of Analysis

Client Sample ID:	H-30-003	Date Sampled:	05/18/05
Lab Sample ID:	F31972-3	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.4
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	190	39	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	39	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	190	39	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	190	39	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	190	39	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	190	77	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	190	77	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	390	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	190	77	ug/kg	
132-64-9	Dibenzofuran	ND	190	39	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	96	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	190	ug/kg	
84-66-2	Diethyl phthalate	ND	390	96	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	96	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	390	190	ug/kg	
206-44-0	Fluoranthene	ND	190	39	ug/kg	
86-73-7	Fluorene	ND	190	39	ug/kg	
118-74-1	Hexachlorobenzene	ND	190	39	ug/kg	
87-68-3	Hexachlorobutadiene	ND	190	77	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	190	77	ug/kg	
67-72-1	Hexachloroethane	ND	190	77	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	190	77	ug/kg	
78-59-1	Isophorone	ND	190	39	ug/kg	
91-57-6	2-Methylnaphthalene	ND	190	39	ug/kg	
88-74-4	2-Nitroaniline	ND	390	96	ug/kg	
99-09-2	3-Nitroaniline	ND	390	96	ug/kg	
100-01-6	4-Nitroaniline	ND	390	140	ug/kg	
91-20-3	Naphthalene	ND	190	39	ug/kg	
98-95-3	Nitrobenzene	ND	190	39	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	190	77	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	39	ug/kg	
85-01-8	Phenanthrene	ND	190	39	ug/kg	
129-00-0	Pyrene	ND	190	77	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	190	39	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%		45-114%
4165-62-2	Phenol-d5	77%		44-124%
118-79-6	2,4,6-Tribromophenol	96%		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

Report of Analysis

Page 3 of 3

Client Sample ID:	H-30-003	Date Sampled:	05/18/05
Lab Sample ID:	F31972-3	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.4
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		41-123%
321-60-8	2-Fluorobiphenyl	83%		46-122%
1718-51-0	Terphenyl-d14	79%		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

Report of Analysis

Page 1 of 1

Client Sample ID:	H-30-003	Date Sampled:	05/18/05
Lab Sample ID:	F31972-3	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	86.4
Method:	MADEP VPH		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV017146.D	1	05/24/05	RAW	n/a	n/a	GUV1011
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.39 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4100	2200	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3000	1600	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	550	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	96%		70-130%
460-00-4	BFB	93%		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

Report of Analysis

Page 1 of 1

2.3

2

Client Sample ID: H-30-003

Lab Sample ID: F31972-3

Date Sampled: 05/18/05

Matrix: SO - Soil

Date Received: 05/19/05

Method: MADEP-EPH-98-1 SW846 3550B

Percent Solids: 86.4

Project: Camp Lejeune-H-30

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	ZF16998.D	8	05/26/05	ME	05/20/05	OP13368	GZF798
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	116000	62000	62000	ug/kg	
	C9-C18 Aliphatics	524000	62000	62000	ug/kg	
	C19-C36 Aliphatics	122000	62000	62000	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
3386-33-2	1-Chlorooctadecane	77%		40-140%		
580-13-2	2-Bromonaphthalene	66%		40-140%		
84-15-1	o-Terphenyl	89%		40-140%		
321-60-8	2-Fluorobiphenyl	82%		40-140%		

(a) Sample results indicate possible sample nonhomogeneity.

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

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

Report of Analysis

Page 1 of 2

Client Sample ID:	H-30-004	Date Sampled:	05/18/05
Lab Sample ID:	F31972-4	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	83.2
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H030853.D	1	05/19/05	NAF	05/19/05 13:06	n/a	VH1166
Run #2							

Run #	Initial Weight
Run #1	6.07 g
Run #2	

VOA TCL List

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	2.0	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	3.0	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	9.9	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	9.9	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	9.9	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	9.9	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	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates 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:	H-30-004	Date Sampled:	05/18/05
Lab Sample ID:	F31972-4	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	83.2
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/kg	
1330-20-7	Xylene (total)	ND	15	4.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		78-123%
2037-26-5	Toluene-D8	104%		71-137%
460-00-4	4-Bromofluorobenzene	104%		61-157%
17060-07-0	1,2-Dichloroethane-D4	99%		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

Report of Analysis

Client Sample ID: H-30-004

Lab Sample ID: F31972-4

Date Sampled: 05/18/05

Matrix: SO - Soil

Date Received: 05/19/05

Method: SW846 8270C SW846 3550B

Percent Solids: 83.2

Project: Camp Lejeune-H-30

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026095.D	1	05/23/05	ME	05/20/05	OP13371	SL1377
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.5 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	950	380	ug/kg	
95-57-8	2-Chlorophenol	ND	190	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	38	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	38	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	950	380	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	380	76	ug/kg	
95-48-7	2-Methylphenol	ND	190	38	ug/kg	
	3&4-Methylphenol	ND	190	38	ug/kg	
88-75-5	2-Nitrophenol	ND	190	38	ug/kg	
100-02-7	4-Nitrophenol	ND	950	380	ug/kg	
87-86-5	Pentachlorophenol	ND	950	380	ug/kg	
108-95-2	Phenol	ND	190	38	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	38	ug/kg	
83-32-9	Acenaphthene	ND	190	38	ug/kg	
208-96-8	Acenaphthylene	ND	190	38	ug/kg	
120-12-7	Anthracene	ND	190	38	ug/kg	
56-55-3	Benzo(a)anthracene	ND	190	38	ug/kg	
50-32-8	Benzo(a)pyrene	ND	190	38	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	190	38	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	190	76	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	190	38	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	190	38	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	380	95	ug/kg	
100-51-6	Benzyl Alcohol	ND	190	38	ug/kg	
91-58-7	2-Chloronaphthalene	ND	190	38	ug/kg	
106-47-8	4-Chloroaniline	ND	380	150	ug/kg	
86-74-8	Carbazole	ND	190	38	ug/kg	
218-01-9	Chrysene	ND	190	38	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	190	38	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	190	76	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

Report of Analysis

Client Sample ID:	H-30-004	Date Sampled:	05/18/05
Lab Sample ID:	F31972-4	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	83.2
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	190	38	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	38	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	190	38	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	190	38	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	190	38	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	190	76	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	190	76	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	380	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	190	76	ug/kg	
132-64-9	Dibenzofuran	ND	190	38	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	380	95	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	380	190	ug/kg	
84-66-2	Diethyl phthalate	ND	380	95	ug/kg	
131-11-3	Dimethyl phthalate	ND	380	95	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	380	190	ug/kg	
206-44-0	Fluoranthene	ND	190	38	ug/kg	
86-73-7	Fluorene	ND	190	38	ug/kg	
118-74-1	Hexachlorobenzene	ND	190	38	ug/kg	
87-68-3	Hexachlorobutadiene	ND	190	76	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	190	76	ug/kg	
67-72-1	Hexachloroethane	ND	190	76	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	190	76	ug/kg	
78-59-1	Isophorone	ND	190	38	ug/kg	
91-57-6	2-Methylnaphthalene	ND	190	38	ug/kg	
88-74-4	2-Nitroaniline	ND	380	95	ug/kg	
99-09-2	3-Nitroaniline	ND	380	95	ug/kg	
100-01-6	4-Nitroaniline	ND	380	130	ug/kg	
91-20-3	Naphthalene	ND	190	38	ug/kg	
98-95-3	Nitrobenzene	ND	190	38	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	190	76	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	38	ug/kg	
85-01-8	Phenanthrene	ND	190	38	ug/kg	
129-00-0	Pyrene	ND	190	76	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	190	38	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%		45-114%
4165-62-2	Phenol-d5	74%		44-124%
118-79-6	2,4,6-Tribromophenol	82%		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

Report of Analysis

Client Sample ID:	H-30-004	Date Sampled:	05/18/05
Lab Sample ID:	F31972-4	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	83.2
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		41-123%
321-60-8	2-Fluorobiphenyl	73%		46-122%
1718-51-0	Terphenyl-d14	70%		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

Report of Analysis

Page 1 of 1

2.4

2

Client Sample ID: H-30-004
 Lab Sample ID: F31972-4
 Matrix: SO - Soil
 Method: MADEP VPH
 Project: Camp Lejeune-H-30

Date Sampled: 05/18/05
 Date Received: 05/19/05
 Percent Solids: 83.2

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV017147.D	1	05/24/05	RAW	n/a	n/a	GUV1011
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.88 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	3900	2100	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2900	1600	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1000	520	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	93%		70-130%
460-00-4	BFB	91%		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

Report of Analysis

Page 1 of 1

2.4

2

Client Sample ID:	H-30-004	Date Sampled:	05/18/05
Lab Sample ID:	F31972-4	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	83.2
Method:	MADEP-EPH-98-1 SW846 3550B		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF16987.D	1	05/25/05	SM	05/20/05	OP13368	GZF797
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 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	69%		40-140%
580-13-2	2-Bromonaphthalene	65%		40-140%
84-15-1	o-Terphenyl	86%		40-140%
321-60-8	2-Fluorobiphenyl	90%		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

Report of Analysis

Page 1 of 2

2.5

2

Client Sample ID:	H-30-005	Date Sampled:	05/18/05
Lab Sample ID:	F31972-5	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	80.4
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H030854.D	1	05/19/05	NAF	05/19/05 13:06	n/a	VH1166
Run #2							

Run #	Initial Weight
Run #1	6.00 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	52	26	ug/kg	
71-43-2	Benzene	ND	5.2	2.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	2.1	ug/kg	
75-25-2	Bromoform	ND	5.2	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	2.1	ug/kg	
75-00-3	Chloroethane	ND	5.2	2.1	ug/kg	
67-66-3	Chloroform	ND	5.2	2.1	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	2.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	3.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	2.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	2.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	2.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	2.1	ug/kg	
591-78-6	2-Hexanone	ND	26	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	26	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.2	2.1	ug/kg	
75-09-2	Methylene chloride	ND	10	5.2	ug/kg	
78-93-3	Methyl ethyl ketone	ND	26	10	ug/kg	
100-42-5	Styrene	ND	5.2	2.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	2.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	2.1	ug/kg	
108-88-3	Toluene	ND	5.2	2.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	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

Report of Analysis

Client Sample ID:	H-30-005	Date Sampled:	05/18/05
Lab Sample ID:	F31972-5	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	80.4
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	5.2	2.6	ug/kg	
1330-20-7	Xylene (total)	ND	16	4.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		78-123%
2037-26-5	Toluene-D8	105%		71-137%
460-00-4	4-Bromofluorobenzene	113%		61-157%
17060-07-0	1,2-Dichloroethane-D4	119%		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

Report of Analysis

Page 1 of 3

2.5

2

Client Sample ID: H-30-005
 Lab Sample ID: F31972-5
 Matrix: SO - Soil
 Method: SW846 8270C SW846 3550B
 Project: Camp Lejeune-H-30

Date Sampled: 05/18/05
 Date Received: 05/19/05
 Percent Solids: 80.4

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026096.D	1	05/23/05	ME	05/20/05	OP13371	SL1377
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.8 g	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	980	390	ug/kg	
95-57-8	2-Chlorophenol	ND	200	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	39	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	39	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	980	390	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	390	78	ug/kg	
95-48-7	2-Methylphenol	ND	200	39	ug/kg	
	3&4-Methylphenol	ND	200	39	ug/kg	
88-75-5	2-Nitrophenol	ND	200	39	ug/kg	
100-02-7	4-Nitrophenol	ND	980	390	ug/kg	
87-86-5	Pentachlorophenol	ND	980	390	ug/kg	
108-95-2	Phenol	ND	200	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	39	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	39	ug/kg	
83-32-9	Acenaphthene	ND	200	39	ug/kg	
208-96-8	Acenaphthylene	ND	200	39	ug/kg	
120-12-7	Anthracene	ND	200	39	ug/kg	
56-55-3	Benzo(a)anthracene	ND	200	39	ug/kg	
50-32-8	Benzo(a)pyrene	ND	200	39	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	200	39	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	200	78	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	200	39	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	200	39	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	390	98	ug/kg	
100-51-6	Benzyl Alcohol	ND	200	39	ug/kg	
91-58-7	2-Chloronaphthalene	ND	200	39	ug/kg	
106-47-8	4-Chloroaniline	ND	390	160	ug/kg	
86-74-8	Carbazole	ND	200	39	ug/kg	
218-01-9	Chrysene	ND	200	39	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	200	39	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	200	78	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

Report of Analysis

Client Sample ID:	H-30-005	Date Sampled:	05/18/05
Lab Sample ID:	F31972-5	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	80.4
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	39	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	39	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	200	39	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	200	39	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	200	39	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	200	78	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	200	78	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	390	200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	200	78	ug/kg	
132-64-9	Dibenzofuran	ND	200	39	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	98	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	200	ug/kg	
84-66-2	Diethyl phthalate	ND	390	98	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	98	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	390	200	ug/kg	
206-44-0	Fluoranthene	ND	200	39	ug/kg	
86-73-7	Fluorene	ND	200	39	ug/kg	
118-74-1	Hexachlorobenzene	ND	200	39	ug/kg	
87-68-3	Hexachlorobutadiene	ND	200	78	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200	78	ug/kg	
67-72-1	Hexachloroethane	ND	200	78	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	200	78	ug/kg	
78-59-1	Isophorone	ND	200	39	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	39	ug/kg	
88-74-4	2-Nitroaniline	ND	390	98	ug/kg	
99-09-2	3-Nitroaniline	ND	390	98	ug/kg	
100-01-6	4-Nitroaniline	ND	390	140	ug/kg	
91-20-3	Naphthalene	ND	200	39	ug/kg	
98-95-3	Nitrobenzene	ND	200	39	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	200	78	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	39	ug/kg	
85-01-8	Phenanthrene	ND	200	39	ug/kg	
129-00-0	Pyrene	ND	200	78	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	200	39	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		45-114%
4165-62-2	Phenol-d5	71%		44-124%
118-79-6	2,4,6-Tribromophenol	89%		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

Report of Analysis

Page 3 of 3

2.5

2

Client Sample ID:	H-30-005	Date Sampled:	05/18/05
Lab Sample ID:	F31972-5	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	80.4
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		41-123%
321-60-8	2-Fluorobiphenyl	81%		46-122%
1718-51-0	Terphenyl-d14	78%		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

Report of Analysis

Page 1 of 1

2.5

2

Client Sample ID: H-30-005
 Lab Sample ID: F31972-5
 Matrix: SO - Soil
 Method: MADEP VPH
 Project: Camp Lejeune-H-30

Date Sampled: 05/18/05
 Date Received: 05/19/05
 Percent Solids: 80.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV017148.D	1	05/24/05	RAW	n/a	n/a	GUV1011
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.52 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4300	2300	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3200	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	570	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	112%		70-130%
460-00-4	BFB	109%		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

Report of Analysis

Page 1 of 1

2.5

2

Client Sample ID: H-30-005

Lab Sample ID: F31972-5

Date Sampled: 05/18/05

Matrix: SO - Soil

Date Received: 05/19/05

Method: MADEP-EPH-98-1 SW846 3550B

Percent Solids: 80.4

Project: Camp Lejeune-H-30

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF17000.D	2	05/26/05	ME	05/20/05	OP13368	GZF798
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.)	61700	16000	16000	ug/kg	
	C9-C18 Aliphatics	154000	16000	16000	ug/kg	
	C19-C36 Aliphatics	40600	16000	16000	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
3386-33-2	1-Chlorooctadecane	57%		40-140%		
580-13-2	2-Bromonaphthalene	86%		40-140%		
84-15-1	o-Terphenyl	83%		40-140%		
321-60-8	2-Fluorobiphenyl	89%		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

Report of Analysis

Page 1 of 2

2.6
2

Client Sample ID:	H-30-006	Date Sampled:	05/18/05
Lab Sample ID:	F31972-6	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H030855.D	1	05/19/05	NAF	05/19/05 13:06	n/a	VH1166
Run #2							

Run #	Initial Weight
Run #1	5.91 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	51	25	ug/kg	
71-43-2	Benzene	ND	5.1	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	2.0	ug/kg	
75-25-2	Bromoform	ND	5.1	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.1	2.0	ug/kg	
67-66-3	Chloroform	ND	5.1	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.1	3.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.1	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.1	2.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.1	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.1	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.1	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	5.1	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.1	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.1	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
100-42-5	Styrene	ND	5.1	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.1	2.0	ug/kg	
108-88-3	Toluene	ND	5.1	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.1	2.0	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

Report of Analysis

Page 2 of 2

2.6

2

Client Sample ID:	H-30-006	Date Sampled:	05/18/05
Lab Sample ID:	F31972-6	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8260B SW846 5035		
Project:	Camp Lejeune-H-30		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	5.1	2.5	ug/kg	
1330-20-7	Xylene (total)	ND	15	4.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		78-123%
2037-26-5	Toluene-D8	102%		71-137%
460-00-4	4-Bromofluorobenzene	102%		61-157%
17060-07-0	1,2-Dichloroethane-D4	99%		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

Report of Analysis

Client Sample ID:	H-30-006	Date Sampled:	05/18/05
Lab Sample ID:	F31972-6	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L026097.D	1	05/23/05	ME	05/20/05	OP13371	SL1377
Run #2							

Run #	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	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

RL = Reporting Limit

E = Indicates 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:	H-30-006	Date Sampled:	05/18/05
Lab Sample ID:	F31972-6	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

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	70%		45-114%
4165-62-2	Phenol-d5	73%		44-124%
118-79-6	2,4,6-Tribromophenol	87%		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

Report of Analysis

Page 3 of 3

2.6

2

Client Sample ID:	H-30-006	Date Sampled:	05/18/05
Lab Sample ID:	F31972-6	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	SW846 8270C SW846 3550B		
Project:	Camp Lejeune-H-30		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		41-123%
321-60-8	2-Fluorobiphenyl	72%		46-122%
1718-51-0	Terphenyl-d14	71%		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

Report of Analysis

Page 1 of 1

2.6
2

Client Sample ID:	H-30-006	Date Sampled:	05/18/05
Lab Sample ID:	F31972-6	Date Received:	05/19/05
Matrix:	SO - Soil	Percent Solids:	83.6
Method:	MADEP VPH		
Project:	Camp Lejeune-H-30		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV017149.D	1	05/24/05	RAW	n/a	n/a	GUV1011
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.59 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4100	2200	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3000	1600	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	550	ug/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
460-00-4	BFB	97%		70-130%		
460-00-4	BFB	95%		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

Report of Analysis

Page 1 of 1

2.6

2

Client Sample ID: H-30-006

Lab Sample ID: F31972-6

Date Sampled: 05/18/05

Matrix: SO - Soil

Date Received: 05/19/05

Method: MADEP-EPH-98-1 SW846 3550B

Percent Solids: 83.6

Project: Camp Lejeune-H-30

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF16995.D	1	05/26/05	ME	05/20/05	OP13368	GZF798
Run #2							

Run #	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	7800	7800	ug/kg	
	C9-C18 Aliphatics	ND	7800	7800	ug/kg	
	C19-C36 Aliphatics	ND	7800	7800	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	70%		40-140%
580-13-2	2-Bromonaphthalene	88%		40-140%
84-15-1	o-Terphenyl	100%		40-140%
321-60-8	2-Fluorobiphenyl	93%		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

Report of Analysis

Client Sample ID: H30-TRIP BLANK
 Lab Sample ID: F31972-7
 Matrix: AQ - Trip Blank Soil
 Method: SW846 8260B
 Project: Camp Lejeune-H-30

Date Sampled: 05/18/05
 Date Received: 05/19/05
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J015764.D	1	05/23/05	JG	n/a	n/a	VJ662
Run #2							

Run #	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	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	0.74	1.0	0.50	ug/l	J
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

Report of Analysis

Page 2 of 2

2.7
2

Client Sample ID:	H30-TRIP BLANK	Date Sampled:	05/18/05
Lab Sample ID:	F31972-7	Date Received:	05/19/05
Matrix:	AQ - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Camp Lejeune-H-30		

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	103%		86-115%
17060-07-0	1,2-Dichloroethane-D4	103%		73-126%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	99%		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



CHAIN-OF-CUSTODY RECORD

F31972

Shaw E & I - Piney Green Rd. Lot 203 Bldg 626 - 910-451-2390											Receiving LAB: ACCUTEST									
Project Name				Project Location				Analysis Desired												
CAMP LEJEUNE - H-30				CAMP LEJEUNE, NC				VOCs 8260	SVOC 8270C	MADEP VPH	MADEP EPH									
Project Number		Contact		P.O. Number		Reviewed by														
112768		Mark Martin		84879																
Client Rep				Project Manager																
US NAVY - LANTDIV				Ron Kenyon																
Item No.	Sample Number	Date	Time	Comp	Grab	Sample Description	Number of Containers													
1	H30-001	5/18/05	1530		X	North SideWall	8	X	X	X	X									
2	H30-002	5/18/05	1540		X	South SideWall	8	X	X	X	X									
3	H30-003	5/18/05	1550		X	East SideWall	8	X	X	X	X									
4	H30-004	5/18/05	1600		X	West SideWall	8	X	X	X	X									
5	H30-005	5/18/05	1610		X	Floor	8	X	X	X	X									
6	H30-006	5/18/05	1600		X	West SideWall b-p	8	X	X	X	X									
7	H30-TripBlank	5/18/05	—		X	Trip Blank	2	X												
8																				
9																				
10																				

Transfer Number	Item Number	Transfers Relinquished By	Transfers Accepted By	Date	Time	Remarks
1	1 --7	<i>[Signature]</i>	FedEx 8481 5073 8030	5/18/05	16:00	1 Day TAT
2		FR	<i>[Signature]</i>	5/19/05	08:00	
3						

3. 2.

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F31972 CLIENT: SHAW ETI PROJECT: CL H30
 DATE/TIME RECEIVED: 5-19-05 09:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 3.2
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: 8481 5073 8030

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

SOIL INFORMATION

NUMBER OF ENCORES ? 2
 NUMBER OF 5035 FIELD KITS ? 2

SAMPLE INFORMATION

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

SUMMARY OF COMMENTS: FOR SAMPLE # 5 H30-005 @ 1610 Received only
1 set of ENCORES (3). Received 1 set of ENCORES + 2 soil jars
labeled AS H30-004 @ 16:10 not on the C.O.C sample were
MADE BY TIMES. ALSO Received WATER TB with soil samples
 TECHNICIAN SIGNATURE/DATE CP 5-19-05 TECHNICIAN SIGNATURE/DATE _____

ASBD02/04/05

F31972: Chain of Custody

Page 2 of 2