SOVEREIGN CONSULTING INC.

December 5, 2006

Commanding Officer
I&E/EMD/EQB (Attn.: Mr. Andrew Smith)
PSC Box 20004
Marine Corps Base
Camp Lejeune, North Carolina 28542-0004

Re: FINAL Soil Sampling Report, TT-2453
North Carolina Department of Environment and Natural Resources (NCDENR) Incident #3099
Soil Sampling Event, October 2006
Marine Corps Base (MCB) Camp Lejeune, North Carolina

Dear Mr. Smith:

Osage of Virginia (Osage) and Sovereign Consulting Inc. (Sovereign) of Virginia Consul partnered to conduct soil sampling at the subject site as requested by Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic Marine Corps North Carolina IPT Division and the MCB Camp Lejeune Environmental Management Division (EMD). Two locations were sampled in the vicinity of Building TT-2453 to assess soil conditions and compare the results to the applicable maximum soil contaminant concentrations (MSCCs). NAVFAC Midlant and MCB Camp Lejeune requested the two soil samples be analyzed via EPA Methods 8260 + IPE & MTBE, 8270, and TPH-GRO/DRO.

This work was authorized by the NAVFAC Midlant under Navy Contract N40085-06-D-7006, Task Order No. 0001. The project site is presently a part of, and in the vicinity of, NCDENR incident # 7176 (TT-2477/78), which has been classified as low risk with residential land use. Laboratory results indicate there are no contaminants present in the TT-2453 samples above the lowest of the soil to groundwater or residential MSCCs. This report presents the data collected during the October 2006 sampling event and summarizes laboratory results and conclusions.

Background

Building TT-2453 was utilized as a gas station until 1987, when it was then used as a Marine Corps Community Services recreational equipment issue. The building was later demolished in 2001. There were seven USTs in the vicinity of the building, one AST, two hydraulic lifts, and the former dispenser islands and associated UST piping. Six of the tanks were removed from the site in 1987, with the remainder of the systems removed during building demolition in 2001. The Building TT-2453 area was incorporated into the TT-2477/78 remediation site (NCDENR incident # 7176) in 2002, where an air

sparge soil vapor extraction remediation system operated until May 2004. The area is currently in the post operation monitoring phase.

Various assessments were performed in the early 1990s that encompassed both NCDENR incident areas. Assessments of the sites showed the presence of shallow groundwater contamination. The contaminant plume was identified in the vicinity of Building TT-2478 and extended southward approximately 800 feet. Contaminant levels in the TT-2477 area were to a much lesser extent. Contamination was also identified in the TT2453 area.

Post operational monitoring of the site areas indicate groundwater contaminants (benzene, ethylbenzene, and total xylenes) were detected at concentrations above the NCGWQSs. Most of the detections were in the vicinity of Building TT-2453. Bis(2-ethylhexyl)phthalate and naphthalene were also detected above 2L groundwater quality standards in wells located at both Buildings TT-2477 and TT-2453. MADEP constituents were also detected in the TT-2453 area.

Soil sampling has been completed at the Building TT-2477 and TT-2478 areas to assess soil contaminant conditions. A soil assessment was also completed at TT-2453 in 2001 by OHM (OHM) Remediation Services Corporation (now known as Shaw Environmental and Infrastructure, Inc. (Shaw)). Findings were summarized in the report titled *Summary of Remedial Activities, Building 2453, MCB Camp Lejeune Onslow County, North Carolina,* dated September 2001.

OHM removed underground piping associated with a fuel oil AST located behind Building TT-2453, two hydraulic lifts located inside the building, and piping and pump islands associated with the former USTs (in front of the building) in May 2001. OHM reportedly did not observe any evidence of a release along any of the piping that was removed. The following approximate lengths of piping were removed from the site:

- 100 feet of 1.5-inch diameter steel piping associated with the AST,
- 70 feet of 4.0-inch diameter steel piping associated with the two hydraulic lifts, and
- 150 feet of 1.5-inch diameter steel piping associated with the former USTs was removed.

Confirmation soil samples were collected following removal activities. General soil sample depths were approximately 2 to 3 below land surface (bls) along piping runs and approximately 7.5 feet bls under the hydraulic lifts. Soil samples were analyzed for Metals (Cr & Pb), MADEP EPH & VPH, TPH DRO & GRO, volatiles, and semi-volatiles. Analyses run varied with each sample.

Diesel range organics were identified above NCDENR action limits in three soil samples - soil sample CL-33-SS-101 (19 mg/kg) at the former dispenser island and samples CL-33-SS-127 (23 mg/kg) and duplicate sample CL-33-SS-128 (45 mg/kg) from a piping location outside the building.

Since these samples indicated exceedences, NAVFAC and MCB Camp Lejeune tasked Osage and Sovereign to resample these locations. Osage, partnered with Sovereign, collected the two soil samples on October 24, 2006.

Field Activities and Discussion

Field personnel conducted the soil sampling event on October 24, 2006. Soil samples were obtained from the two locations (CL-33-SS-101 and CL-33-SS-127/128) shown on Figures 2 and 3 respectively. A stainless steel hand auger was used to collect soil borings from which selected soil samples were obtained. Samples were collected from the 2-3 ft interval in order to replicate the 2001 OHM samples. The hand auger was decontaminated before each boring using an Alconox solution, and new, disposable latex gloves were worn for each sample acquisition.

The soil samples were packed into appropriately labeled laboratory glassware, placed on ice in an insulated cooler, and shipped under chain of custody to Accutest Laboratories in Orlando, Florida (North Carolina Laboratory Certification #573). As requested, the samples were then analyzed for the presence of volatile organic compounds, semi-volatile compounds, and total petroleum hydrocarbons using EPA Methods 8260 + IPE & MTBE, 8270, 5030, and 3550. Laboratory reports and chain of custody documentation are attached.

Results

Two soil samples were collected in the vicinity of the OHM sample locations CL-33-SS-101 and CL-33-SS-127/128.

- EPA Method 8260 + IPE & MTBE
  Neither soil sample contained volatile organic compounds.

- EPA Method 8270
  Soil sample CL-33-SS-101, taken in the vicinity of the former USTs in the front of the building, contained three semi-volatile compounds - Benzo(a)pyrene, Benzo(b)fluoranthene, and Fluoranthene. Concentrations were 0.0409J mg/kg, 0.0578J mg/kg, and 0.0604J mg/kg for the three contaminants. These concentrations do not exceed the lowest of the STGW or residential MSCCs. Soil sample CL-33-SS-127/128 did not exhibit any 8270 target analytes.

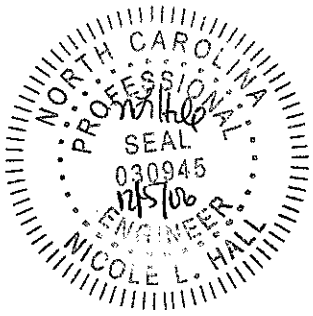
- Method 5030 and 3550
  Neither soil sample contained total petroleum hydrocarbons above the laboratory detection limits. Reporting limits were below the NCDENR action limit of 10 mg/kg.

Summary and Conclusions

Field personnel resampled the offending 2001 OHM soil sample locations in October 2006. As requested, soil samples were collected from locations CL-33-SS-101 and CL-33-SS-127/128 and analyzed via EPA Methods 8260 + IPE & MTBE, 8270, and 5030/3550. Analysis revealed the presence of only three compounds - Benzo(a)pyrene, Benzo(b)fluoranthene, and Fluoranthene. These compounds were detected in soil sample CL-33-SS-101, and concentrations did not exceed the lowest of the STGW or residential MSCCs.

Soil contamination is not present above standards in the two soil samples taken in the vicinity of Building TT-2453. Laboratory analytical results, from the samples taken in October 2006, indicate that the contaminants previously detected by OHM in 2001 have attenuated to below NCDENR action limits.

Sincerely,
Sovereign Consulting Inc.



Nicole L. Hall, P.E.
Senior Engineer

Attachments: Tables 1-3, Figures 1-3, Laboratory Analytical Report

Cc: Mr. David. T. Cleland, P.G. (NAVFAC)
Mr. Chris Murray (Sovereign)

Table 1
Analytical Method: EPA Method 8260 + IPE & MTBE

Sample ID	Contaminant of Concern →		All Target Analytes
	Date Collected	**Sample Depth** (ft BGS)	
CL-33-SS-101	10/24/2006	2-3	ND
CL-33-SS-127/128	10/24/2006	2-3	ND
TRIP BLANK	10/24/2006	2-3	ND
Soil to groundwater MSCC (mg/kg)			Varies
Residential MSCC (mg/kg)			Varies
Industrial/Commercial MSCC (mg/kg)			Varies

Table 2
Analytical Method: EPA Method 8270

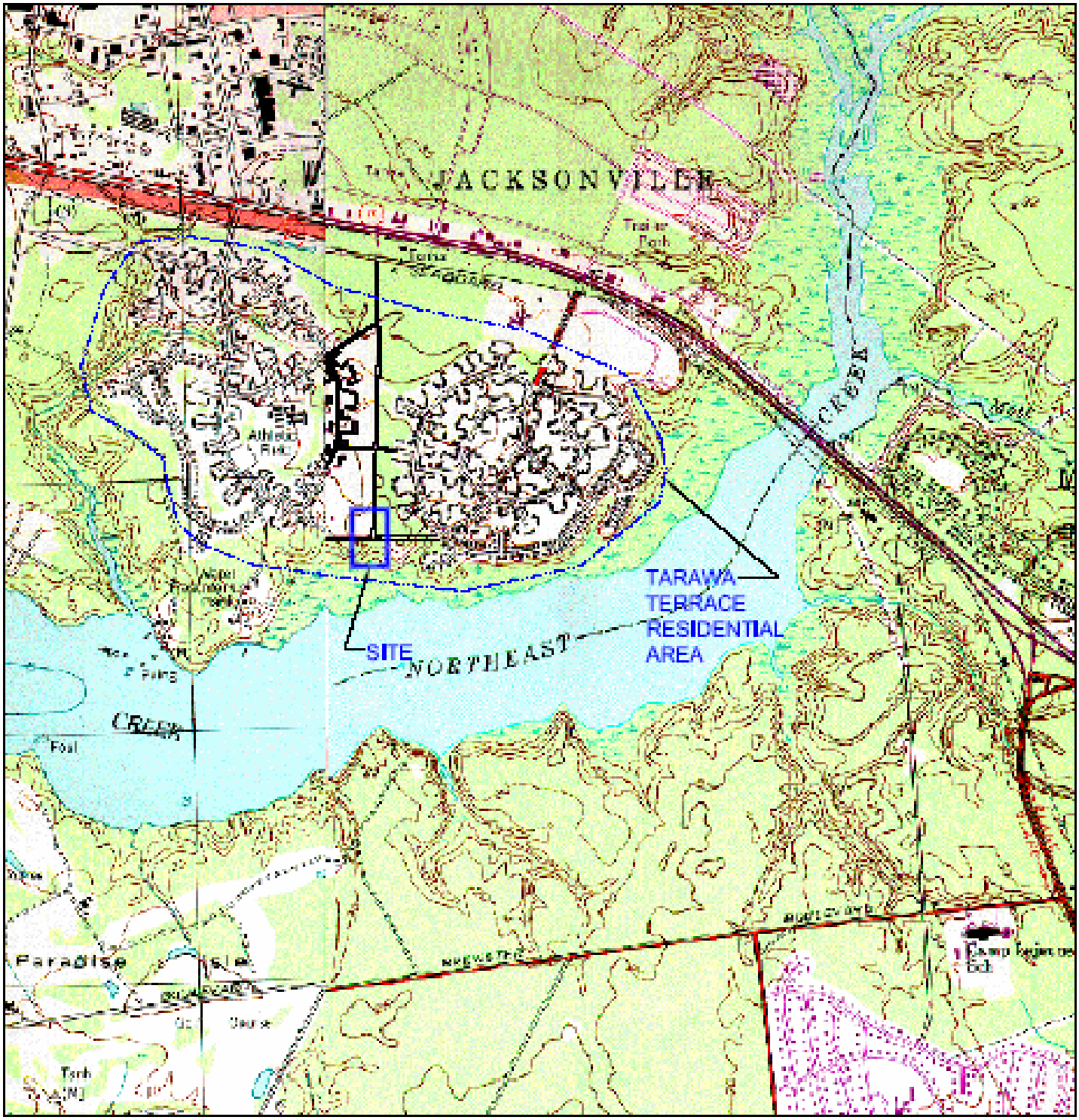
Sample ID	Contaminant of Concern →		Benzo(a)pyrene	Benzo(b)fluoranthene	Fluoranthene	All Other Analytes
	Date Collected	**Sample Depth** (ft BGS)				
CL-33-SS-101	10/24/2006	2-3	**0.0409J**	**0.0578J**	**0.0604J**	ND
CL-33-SS-127/128	10/24/2006	2-3	ND	ND	ND	ND
Soil to groundwater MSCC (mg/kg)			0.091	1.2	280	Varies
Residential MSCC (mg/kg)			0.088	0.88	620	Varies
Industrial/Commercial MSCC (mg/kg)			0.78	8	16,400	Varies

- All results reported in mg/kg
- mg/kg = milligrams per kilogram
- MSCC = Maximum Soil Contaminant Concentration
- ft BGS = feet below ground surface
- ND = Not Detected; see laboratory report for specific reporting limit
- J = Indicates an estimated value
- **BOLD =** detected concentration

Table 3
Analytical Method: TPH – Gasoline Range Organics and Diesel Range Organics

Contaminant of Concern →			TPH-GRO (C6-C10)	TPH-DRO (C10-C28)
Sample ID	**Date Collected**	**Sample Depth** (ft BGS)		
CL-33-SS-101	10/24/2006	2-3	ND	ND
CL-33-SS-127/128	10/24/2006	2-3	ND	ND
NCDENR Action Limit			10	40

- All results reported in mg/kg
- mg/kg = milligrams per kilogram
- MSCC = Maximum Soil Contaminant Concentration
- ft BGS = feet below ground surface
- ND = Not Detected; see laboratory report for specific reporting limit
- **BOLD** = detected concentration



Source: U.S.G.S Camp Lejeune, N.C. Topographic Quadrangle

OSAGE OF VIRGINIA
environmental consultants

PROJECT	TITLE	FIGURE
BUILDING TT-2453 MARINE CORPS BASE CAMP LEJEUNE, N.C.	**GENERAL VICINITY TOPOGRAPHIC MAP**	**1**

JOB NO.	DATE	SCALE	DRAWN BY	CHECKED BY
7006-0001-TT2453	DEC 2006	1"=2000'	MJC	BMC

Table 1
Analytical Method: EPA Method 8260 + IPE & MTBE

Sample ID	Contaminant of Concern → Date Collected	Sample Depth (ft BGS)	All Target Analytes
CL-33-SS-101	10/24/2006	2-3	ND
CL-33-SS-127/128	10/24/2006	2-3	ND
TRIP BLANK	10/24/2006	2-3	ND
Soil to groundwater MSCC (mg/kg)			Varies
Residential MSCC (mg/kg)			Varies
Industrial/Commercial MSCC (mg/kg)			Varies

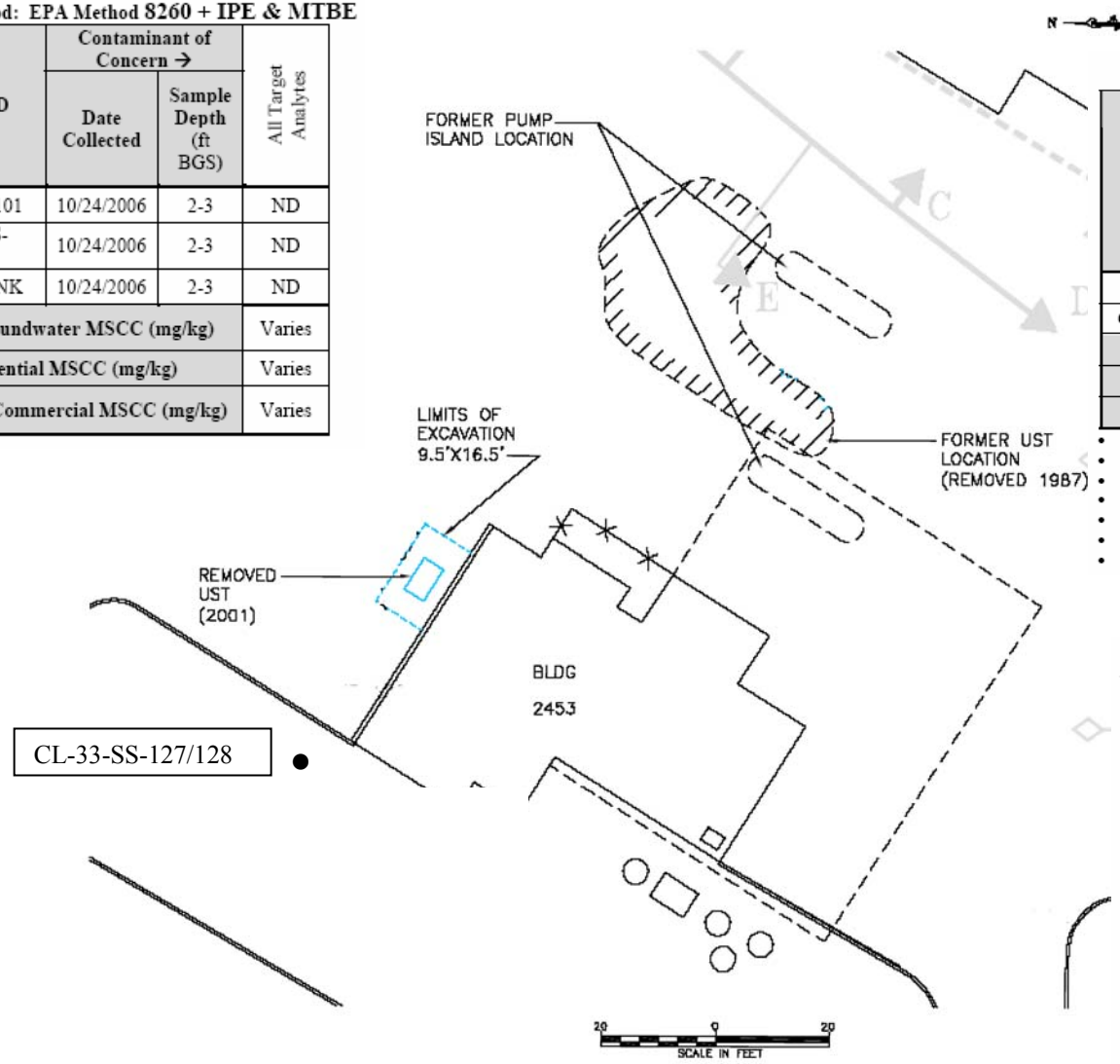


Table 2
Analytical Method: EPA Method 8270

Sample ID	Contaminant of Concern → Date Collected	Sample Depth (ft BGS)	Benzo(a)pyrene	Benzo(b)fluoranthene	Fluoranthene	All Other Analytes
CL-33-SS-101	10/24/2006	2-3	**0.0409J**	**0.0578J**	**0.0604J**	ND
CL-33-SS-127/128	10/24/2006	2-3	ND	ND	ND	ND
Soil to groundwater MSCC (mg/kg)			0.091	1.2	280	Varies
Residential MSCC (mg/kg)			0.088	0.88	620	Varies
Industrial/Commercial MSCC (mg/kg)			0.78	8	16,400	Varies

- All results reported in mg/kg
- mg/kg = milligrams per kilogram
- MSCC = Maximum Soil Contaminant Concentration
- ft BGS = feet below ground surface
- ND = Not Detected; see laboratory report for specific reporting limit
- J = Indicates an estimated value
- **BOLD** = detected concentration

Table 3
Analytical Method: TPH – Gasoline Range Organics and Diesel Range Organics

Sample ID	Contaminant of Concern → Date Collected	Sample Depth (ft BGS)	TPH-GRO (C6-C10)	TPH-DRO (C10-C28)
CL-33-SS-101	10/24/2006	2-3	ND	ND
CL-33-SS-127/128	10/24/2006	2-3	ND	ND
NCDENR Action Limit			10	40

- All results reported in mg/kg
- mg/kg = milligrams per kilogram
- MSCC = Maximum Soil Contaminant Concentration
- ft BGS = feet below ground surface
- ND = Not Detected; see laboratory report for specific reporting limit
- **BOLD** = detected concentration

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PROJECT
BUILDING TT-2453
MARINE CORPS BASE
CAMP LEJEUNE, N.C.

TITLE
SITE MAP WITH OCTOBER SOIL SAMPLING RESULTS - SAMPLE ID: CL-33-SS-127/128 FOR EPA METHODS 8260 + IPE & MTBE, 8270, 5030 and 3550

FIGURE
2

JOB NO.	DATE	SCALE	DRAWN BY	CHECKED BY
7006-0001-TT2453	DEC 2006	SEE FIGURE	MJC	BMC

Table 1
Analytical Method: EPA Method 8260 + IPE & MTBE

Sample ID	Contaminant of Concern → Date Collected	Sample Depth (ft BGS)	All Target Analytes
CL-33-SS-101	10/24/2006	2-3	ND
CL-33-SS-127/128	10/24/2006	2-3	ND
TRIP BLANK	10/24/2006	2-3	ND
Soil to groundwater MSCC (mg/kg)			Varies
Residential MSCC (mg/kg)			Varies
Industrial/Commercial MSCC (mg/kg)			Varies

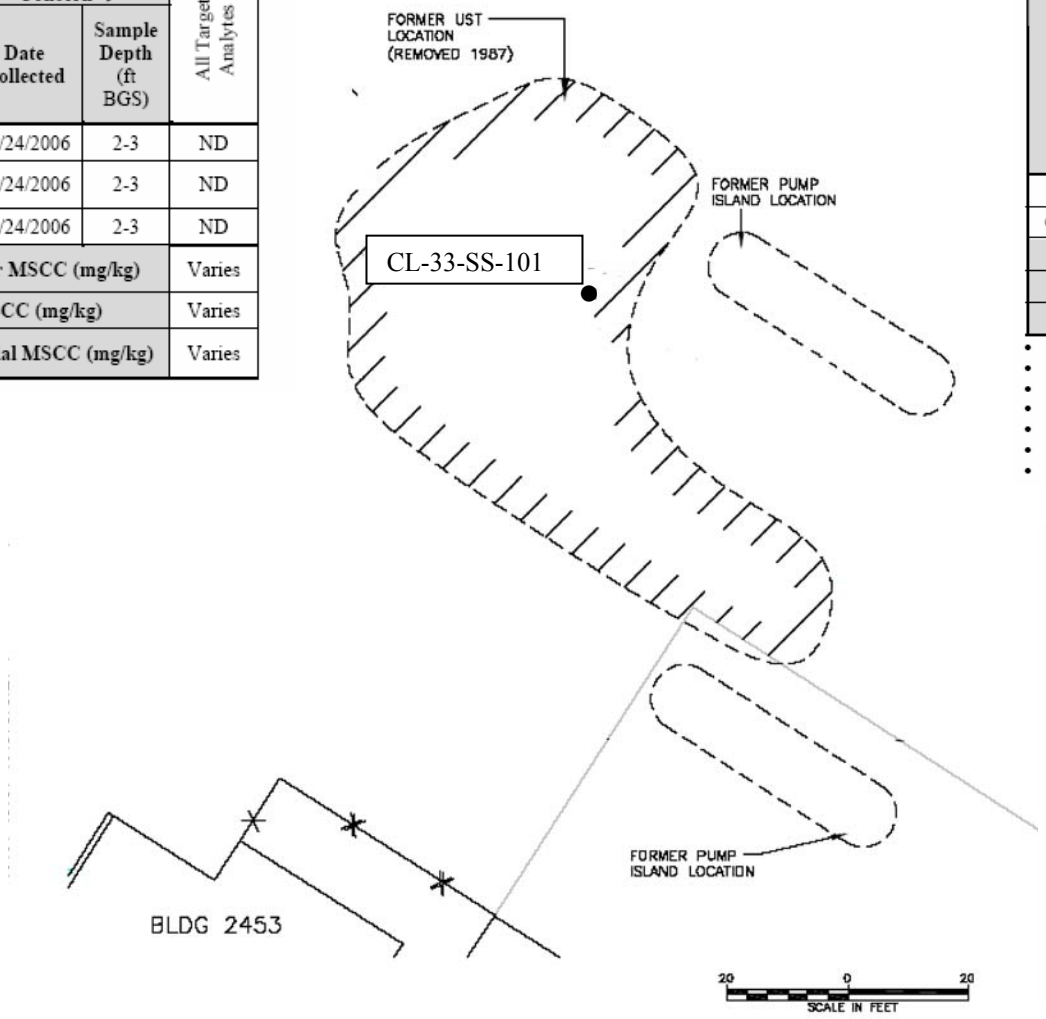

Table 2
Analytical Method: EPA Method 8270

Sample ID	Contaminant of Concern → Date Collected	Sample Depth (ft BGS)	Benzo(a)pyrene	Benzo(b)fluoranthene	Fluoranthene	All Other Analytes
CL-33-SS-101	10/24/2006	2-3	**0.0409J**	**0.0578J**	**0.0604J**	ND
CL-33-SS-127/128	10/24/2006	2-3	ND	ND	ND	ND
Soil to groundwater MSCC (mg/kg)			0.091	1.2	280	Varies
Residential MSCC (mg/kg)			0.088	0.88	620	Varies
Industrial/Commercial MSCC (mg/kg)			0.78	8	16,400	Varies

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- J = Indicates an estimated value
- **BOLD** = detected concentration

Table 3
Analytical Method: TPH – Gasoline Range Organics and Diesel Range Organics

Sample ID	Contaminant of Concern → Date Collected	Sample Depth (ft BGS)	TPH-GRO (C6-C10)	TPH-DRO (C10-C28)
CL-33-SS-101	10/24/2006	2-3	ND	ND
CL-33-SS-127/128	10/24/2006	2-3	ND	ND
NCDENR Action Limit			10	40

- All results reported in mg/kg
- mg/kg = milligrams per kilogram
- MSCC = Maximum Soil Contaminant Concentration
- ft BGS = feet below ground surface
- ND = Not Detected; see laboratory report for specific reporting limit
- **BOLD** = detected concentration

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PROJECT
BUILDING TT-2453
MARINE CORPS BASE
CAMP LEJEUNE, N.C.

TITLE
SITE MAP WITH OCTOBER SOIL SAMPLING RESULTS - SAMPLE ID: CL-33-SS-101 FOR EPA METHODS 8260 + IPE & MTBE, 8270, 5030 and 3550

FIGURE
3

JOB NO.	DATE	SCALE	DRAWN BY	CHECKED BY
7006-0001-TT2453	DEC 2006	SEE FIGURE	MJC	BMC

Technical Report for

Osage of Virginia

TT2453: Camp Lejeune, NC

Accutest Job Number: F44687

Sampling Date: 10/24/06

Report to:

Osage of Virginia

ATTN: Mike Cree

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

ACCREDITED IN ACCORDANCE WITH nelac

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

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

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

Test results relate only to samples analyzed.

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Sections: 1 2 3 4 5 6 7

Table of Contents

Accutest Laboratories

Sample Summary

Osage of Virginia

Job No: F44687

TT2453: Camp Lejeune, NC

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
F44687-1	10/24/06	08:30	JW	10/25/06	SO	Soil	CL-33-SS-101
F44687-2	10/24/06	09:00	JW	10/25/06	SO	Soil	CL-33-SS-127/28
F44687-3	10/24/06	00:00	JW	10/25/06	SO	Trip Blank Soil	TRIP BLANK

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

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID: CL-33-SS-101
Lab Sample ID: F44687-1
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: TT2453: Camp Lejeune, NC

Date Sampled: 10/24/06
Date Received: 10/25/06
Percent Solids: 82.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K029199.D	1	11/03/06	WJ	10/25/06 14:40	n/a	VK1300
Run #2							

	Initial Weight
Run #1	5.03 g
Run #2	

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	60	30	ug/kg	
71-43-2	Benzene	ND	6.0	2.4	ug/kg	
108-86-1	Bromobenzene	ND	6.0	2.4	ug/kg	
74-97-5	Bromochloromethane	ND	6.0	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	6.0	2.4	ug/kg	
75-25-2	Bromoform	ND	6.0	2.4	ug/kg	
104-51-8	n-Butylbenzene	ND	6.0	3.6	ug/kg	
135-98-8	sec-Butylbenzene	ND	6.0	2.4	ug/kg	
98-06-6	tert-Butylbenzene	ND	6.0	2.4	ug/kg	
108-90-7	Chlorobenzene	ND	6.0	2.4	ug/kg	
75-00-3	Chloroethane	ND	6.0	3.6	ug/kg	
67-66-3	Chloroform	ND	6.0	2.4	ug/kg	
95-49-8	o-Chlorotoluene	ND	6.0	2.4	ug/kg	
106-43-4	p-Chlorotoluene	ND	6.0	2.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.0	2.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.0	2.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.0	2.4	ug/kg	
563-58-6	1,1-Dichloropropene	ND	6.0	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.0	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.0	2.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.0	2.4	ug/kg	
142-28-9	1,3-Dichloropropane	ND	6.0	2.4	ug/kg	
108-20-3	Di-Isopropyl ether	ND	6.0	2.4	ug/kg	
594-20-7	2,2-Dichloropropane	ND	6.0	2.4	ug/kg	
124-48-1	Dibromochloromethane	ND	6.0	2.4	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	3.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.0	2.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	2.4	ug/kg	
541-73-1	m-Dichlorobenzene	ND	6.0	2.4	ug/kg	
95-50-1	o-Dichlorobenzene	ND	6.0	2.4	ug/kg	
106-46-7	p-Dichlorobenzene	ND	6.0	2.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.0	2.4	ug/kg	

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CL-33-SS-101		
Lab Sample ID:	F44687-1	**Date Sampled:**	10/24/06
Matrix:	SO - Soil	**Date Received:**	10/25/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	82.2
Project:	TT2453: Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	2.4	ug/kg	
100-41-4	Ethylbenzene	ND	6.0	2.4	ug/kg	
591-78-6	2-Hexanone	ND	30	12	ug/kg	
98-82-8	Isopropylbenzene	ND	6.0	2.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	6.0	2.4	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	30	12	ug/kg	
74-83-9	Methyl bromide	ND	6.0	2.4	ug/kg	
74-87-3	Methyl chloride	ND	6.0	2.4	ug/kg	
75-09-2	Methylene chloride	ND	12	6.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	30	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.0	2.4	ug/kg	
91-20-3	Naphthalene	ND	6.0	2.4	ug/kg	
103-65-1	n-Propylbenzene	ND	6.0	2.4	ug/kg	
100-42-5	Styrene	ND	6.0	2.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.0	2.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	2.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.0	2.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	2.4	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	6.0	3.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	2.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.0	3.6	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	6.0	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.0	2.4	ug/kg	
108-88-3	Toluene	ND	6.0	2.4	ug/kg	
79-01-6	Trichloroethylene	ND	6.0	2.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	2.4	ug/kg	
75-01-4	Vinyl chloride	ND	6.0	2.4	ug/kg	
108-05-4	Vinyl Acetate	ND	30	12	ug/kg	
1330-20-7	Xylene (total)	ND	18	6.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		78-123%
2037-26-5	Toluene-D8	100%		71-137%
460-00-4	4-Bromofluorobenzene	86%		61-157%
17060-07-0	1,2-Dichloroethane-D4	89%		74-125%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CL-33-SS-101		
Lab Sample ID:	F44687-1	**Date Sampled:**	10/24/06
Matrix:	SO - Soil	**Date Received:**	10/25/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	82.2
Project:	TT2453: Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R05762.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	990	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	990	390	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	390	79	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	990	390	ug/kg	
87-86-5	Pentachlorophenol	ND	990	390	ug/kg	
108-95-2	Phenol	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	40.9	200	39	ug/kg	J
205-99-2	Benzo(b)fluoranthene	57.8	200	39	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	200	79	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	99	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	
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	79	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	39	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	39	ug/kg	

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CL-33-SS-101		
Lab Sample ID:	F44687-1	**Date Sampled:**	10/24/06
Matrix:	SO - Soil	**Date Received:**	10/25/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	82.2
Project:	TT2453: Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	200	39	ug/kg	
122-66-7	1,2-Diphenylhydrazine	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	79	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	200	79	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	390	200	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	200	79	ug/kg	
132-64-9	Dibenzofuran	ND	200	39	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	390	99	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	390	200	ug/kg	
84-66-2	Diethyl phthalate	ND	390	99	ug/kg	
131-11-3	Dimethyl phthalate	ND	390	99	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	390	200	ug/kg	
206-44-0	Fluoranthene	60.4	200	39	ug/kg	J
86-73-7	Fluorene	ND	200	39	ug/kg	
118-74-1	Hexachlorobenzene	ND	200	39	ug/kg	
87-68-3	Hexachlorobutadiene	ND	200	79	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	200	79	ug/kg	
67-72-1	Hexachloroethane	ND	200	79	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	200	79	ug/kg	
78-59-1	Isophorone	ND	200	39	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	39	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	79	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	79	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	75%		45-114%
4165-62-2	Phenol-d5	77%		44-124%
118-79-6	2,4,6-Tribromophenol	85%		50-128%
4165-60-0	Nitrobenzene-d5	70%		41-123%
321-60-8	2-Fluorobiphenyl	73%		46-122%
1718-51-0	Terphenyl-d14	77%		45-135%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CL-33-SS-101		
Lab Sample ID:	F44687-1	**Date Sampled:**	10/24/06
Matrix:	SO - Soil	**Date Received:**	10/25/06
Method:	SW846 8015 SW846 5035	**Percent Solids:**	82.2
Project:	TT2453: Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD072669.D	1	11/02/06	MM	10/25/06 14:40	n/a	GCD3006
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.02 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	7.1	3.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		62-135%
98-08-8	aaa-Trifluorotoluene	83%		65-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CL-33-SS-101		
Lab Sample ID:	F44687-1	**Date Sampled:**	10/24/06
Matrix:	SO - Soil	**Date Received:**	10/25/06
Method:	SW846 8015 M SW846 3550B	**Percent Solids:**	82.2
Project:	TT2453: Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF22136.D	1	11/06/06	ME	11/02/06	OP18385	GZF1031
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	10	6.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		57-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID: CL-33-SS-127/28
Lab Sample ID: F44687-2
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: TT2453: Camp Lejeune, NC

Date Sampled: 10/24/06
Date Received: 10/25/06
Percent Solids: 85.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K029200.D	1	11/03/06	WJ	10/25/06 14:40	n/a	VK1300
Run #2							

	Initial Weight
Run #1	6.24 g
Run #2	

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	47	23	ug/kg	
71-43-2	Benzene	ND	4.7	1.9	ug/kg	
108-86-1	Bromobenzene	ND	4.7	1.9	ug/kg	
74-97-5	Bromochloromethane	ND	4.7	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	4.7	1.9	ug/kg	
75-25-2	Bromoform	ND	4.7	1.9	ug/kg	
104-51-8	n-Butylbenzene	ND	4.7	2.8	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.7	1.9	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.7	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	4.7	1.9	ug/kg	
75-00-3	Chloroethane	ND	4.7	2.8	ug/kg	
67-66-3	Chloroform	ND	4.7	1.9	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.7	1.9	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.7	1.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.7	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.7	1.9	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.7	1.9	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.7	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.7	1.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.7	1.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.7	1.9	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.7	1.9	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.7	1.9	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.7	1.9	ug/kg	
124-48-1	Dibromochloromethane	ND	4.7	1.9	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.7	2.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.7	1.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.7	1.9	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.7	1.9	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.7	1.9	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.7	1.9	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.7	1.9	ug/kg	

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CL-33-SS-127/28		
Lab Sample ID:	F44687-2	**Date Sampled:**	10/24/06
Matrix:	SO - Soil	**Date Received:**	10/25/06
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.3
Project:	TT2453: Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	4.7	1.9	ug/kg	
100-41-4	Ethylbenzene	ND	4.7	1.9	ug/kg	
591-78-6	2-Hexanone	ND	23	9.4	ug/kg	
98-82-8	Isopropylbenzene	ND	4.7	1.9	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.7	1.9	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	23	9.4	ug/kg	
74-83-9	Methyl bromide	ND	4.7	1.9	ug/kg	
74-87-3	Methyl chloride	ND	4.7	1.9	ug/kg	
75-09-2	Methylene chloride	ND	9.4	4.7	ug/kg	
78-93-3	Methyl ethyl ketone	ND	23	9.4	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.7	1.9	ug/kg	
91-20-3	Naphthalene	ND	4.7	1.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.7	1.9	ug/kg	
100-42-5	Styrene	ND	4.7	1.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.7	1.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.7	1.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.7	1.9	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.7	2.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	1.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.7	2.8	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.7	1.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.7	1.9	ug/kg	
108-88-3	Toluene	ND	4.7	1.9	ug/kg	
79-01-6	Trichloroethylene	ND	4.7	1.9	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.7	1.9	ug/kg	
75-01-4	Vinyl chloride	ND	4.7	1.9	ug/kg	
108-05-4	Vinyl Acetate	ND	23	9.4	ug/kg	
1330-20-7	Xylene (total)	ND	14	4.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		78-123%
2037-26-5	Toluene-D8	101%		71-137%
460-00-4	4-Bromofluorobenzene	85%		61-157%
17060-07-0	1,2-Dichloroethane-D4	86%		74-125%

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Accutest Laboratories

Report of Analysis

Client Sample ID: CL-33-SS-127/28
Lab Sample ID: F44687-2
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: TT2453: Camp Lejeune, NC

Date Sampled: 10/24/06
Date Received: 10/25/06
Percent Solids: 85.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R05763.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
Run #2							

	Initial Weight	Final Volume
Run #1	29.4 g	1.0 ml
Run #2		

ABN List for NC

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	
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	
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	
108-60-1	bis(2-Chloroisopropyl)ether	ND	200	40	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	40	ug/kg	

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CL-33-SS-127/28		
Lab Sample ID:	F44687-2	**Date Sampled:**	10/24/06
Matrix:	SO - Soil	**Date Received:**	10/25/06
Method:	SW846 8270C SW846 3550B	**Percent Solids:**	85.3
Project:	TT2453: Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	200	40	ug/kg	
122-66-7	1,2-Diphenylhydrazine	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	
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	72%		45-114%
4165-62-2	Phenol-d5	74%		44-124%
118-79-6	2,4,6-Tribromophenol	78%		50-128%
4165-60-0	Nitrobenzene-d5	68%		41-123%
321-60-8	2-Fluorobiphenyl	70%		46-122%
1718-51-0	Terphenyl-d14	70%		45-135%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CL-33-SS-127/28		
Lab Sample ID:	F44687-2	**Date Sampled:**	10/24/06
Matrix:	SO - Soil	**Date Received:**	10/25/06
Method:	SW846 8015 SW846 5035	**Percent Solids:**	85.3
Project:	TT2453: Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD072670.D	1	11/02/06	MM	10/25/06 14:40	n/a	GCD3006
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.06 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.7	2.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	84%		62-135%
98-08-8	aaa-Trifluorotoluene	80%		65-118%

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

Accutest Laboratories

Report of Analysis

Client Sample ID: CL-33-SS-127/28
Lab Sample ID: F44687-2
Matrix: SO - Soil
Method: SW846 8015 M SW846 3550B
Project: TT2453: Camp Lejeune, NC

Date Sampled: 10/24/06
Date Received: 10/25/06
Percent Solids: 85.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF22137.D	1	11/06/06	ME	11/02/06	OP18385	GZF1031
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	9.6	5.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		57-115%

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F44687-3	**Date Sampled:**	10/24/06
Matrix:	SO - Trip Blank Soil	**Date Received:**	10/25/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TT2453: Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K029201.D	1	11/03/06	WJ	n/a	n/a	VK1300
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA List for NC

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	
108-86-1	Bromobenzene	ND	5.0	2.0	ug/kg	
74-97-5	Bromochloromethane	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	
104-51-8	n-Butylbenzene	ND	5.0	3.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	3.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	2.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	3.0	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	
541-73-1	m-Dichlorobenzene	ND	5.0	2.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	2.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	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

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	F44687-3	**Date Sampled:**	10/24/06
Matrix:	SO - Trip Blank Soil	**Date Received:**	10/25/06
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	TT2453: Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	2.0	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	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	3.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	10	ug/kg	
1330-20-7	Xylene (total)	ND	15	5.0	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	82%		61-157%
17060-07-0	1,2-Dichloroethane-D4	92%		74-125%

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

ACCUTEST Laboratories

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

ACCUTEST JOB #: F44687
ACCUTEST QUOTE #:

CLIENT INFORMATION

NAME: OSAGE OF VA, INC.
ADDRESS: 2618A COLLEY AVE
CITY: NORFOLK STATE: VA ZIP: 23517
SEND REPORT TO: MIKE CRUSE
PHONE #: 757 490-0400

FACILITY INFORMATION

PROJECT NAME: TT2453
LOCATION: CAMP LEJEUNE, NC
PROJECT NO.:
FAX #: 757 440 0411

ANALYTICAL INFORMATION

GRO TPH
DRO/8270 TPH
8260

MATRIX CODES

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

LAB USE ONLY

ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION DATE	COLLECTION TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	PRESERVATION HCl	PRESERVATION MeOH	PRESERVATION HNO3	PRESERVATION H2SO4	PRESERVATION NONE	GRO TPH	DRO/8270 TPH	8260	LAB USE ONLY
1	GL-33-SS-101	10/24/06	0830	JMc	SO	6						1	2	3	
2	GL-33-SS-127/28	10/24/06	0900	JMc	SO	6						1	2	3	
3	TRIP BLANK					2									
	TEMP BLANK					2									

DATA TURNAROUND INFORMATION

- [x] STANDARD
- [ ] 48 HOUR RUSH
- [ ] 24 HOUR EMERGENCY
- [ ] OTHER

APPROVED BY:

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

- [x] STANDARD
- [ ] COMMERCIAL "B"
- [ ] DISK DELIVERABLE
- [ ] STATE FORMS
- [ ] OTHER (SPECIFY)

COMMENTS/REMARKS

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

RELINQUISHED BY SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
1.	10/24/06 1000	1. FX	2. FX	10-24-06	2. Jorge Corol 09:00
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:
3.		3.	4.		4.
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE ☐	ON ICE ☐	TEMPERATURE 1.6 C
5.		5.				

F44687: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F44687 CLIENT: OSAGE OF VA PROJECT: TT 2453

DATE/TIME RECEIVED: 10-25-06 09:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 1.6

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

AIRBILL NUMBERS: 8581 0350 0183

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

SAMPLE INFORMATION

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

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? 8

NUMBER OF 5035 FIELD KITS ? 0

NUMBER OR LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE JC 10-25-06 TECHNICIAN SIGNATURE/DATE ASBD 10/03/06

F44687: Chain of Custody

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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1300-MB	K029191.D	1	11/03/06	WJ	n/a	n/a	VK1300

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

F44687-1, F44687-2, F44687-3

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	
108-86-1	Bromobenzene	ND	5.0	2.0	ug/kg	
74-97-5	Bromochloromethane	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	
104-51-8	n-Butylbenzene	ND	5.0	3.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	3.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	2.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	3.0	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	
541-73-1	m-Dichlorobenzene	ND	5.0	2.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	2.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	2.0	ug/kg	

Method Blank Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1300-MB	K029191.D	1	11/03/06	WJ	n/a	n/a	VK1300

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

F44687-1, F44687-2, F44687-3

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	5.0	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	2.0	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	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	3.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	10	ug/kg	
1330-20-7	Xylene (total)	ND	15	5.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	78-123%
2037-26-5	Toluene-D8	96%	71-137%
460-00-4	4-Bromofluorobenzene	78%	61-157%
17060-07-0	1,2-Dichloroethane-D4	93%	74-125%

Blank Spike Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1300-BS	K029190.D	1	11/03/06	WJ	n/a	n/a	VK1300

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

F44687-1, F44687-2, F44687-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	266	106	51-136
71-43-2	Benzene	50	53.6	107	74-124
108-86-1	Bromobenzene	50	50.4	101	78-117
74-97-5	Bromochloromethane	50	51.0	102	77-126
75-27-4	Bromodichloromethane	50	48.1	96	74-124
75-25-2	Bromoform	50	54.4	109	79-127
104-51-8	n-Butylbenzene	50	52.1	104	75-131
135-98-8	sec-Butylbenzene	50	50.5	101	78-128
98-06-6	tert-Butylbenzene	50	49.9	100	76-126
108-90-7	Chlorobenzene	50	52.9	106	78-117
75-00-3	Chloroethane	50	64.2	128	63-147
67-66-3	Chloroform	50	52.5	105	75-121
95-49-8	o-Chlorotoluene	50	48.1	96	79-124
106-43-4	p-Chlorotoluene	50	48.2	96	79-124
56-23-5	Carbon tetrachloride	50	56.8	114	67-131
75-34-3	1,1-Dichloroethane	50	53.8	108	71-118
75-35-4	1,1-Dichloroethylene	50	51.3	103	64-126
563-58-6	1,1-Dichloropropene	50	55.1	110	73-132
106-93-4	1,2-Dibromoethane	50	51.3	103	78-117
107-06-2	1,2-Dichloroethane	50	52.4	105	72-120
78-87-5	1,2-Dichloropropane	50	51.4	103	74-126
142-28-9	1,3-Dichloropropane	50	48.0	96	77-117
108-20-3	Di-Isopropyl ether	50	52.0	104	75-132
594-20-7	2,2-Dichloropropane	50	55.3	111	66-126
124-48-1	Dibromochloromethane	50	50.4	101	78-120
75-71-8	Dichlorodifluoromethane	50	31.1	62	33-172
156-59-2	cis-1,2-Dichloroethylene	50	51.7	103	75-124
10061-01-5	cis-1,3-Dichloropropene	50	52.2	104	72-120
541-73-1	m-Dichlorobenzene	50	52.3	105	79-119
95-50-1	o-Dichlorobenzene	50	50.9	102	78-119
106-46-7	p-Dichlorobenzene	50	52.6	105	78-117
156-60-5	trans-1,2-Dichloroethylene	50	52.7	105	70-122
10061-02-6	trans-1,3-Dichloropropene	50	54.5	109	75-118
100-41-4	Ethylbenzene	50	50.7	101	77-120
591-78-6	2-Hexanone	250	236	94	68-136
98-82-8	Isopropylbenzene	50	51.3	103	79-134

Blank Spike Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1300-BS	K029190.D	1	11/03/06	WJ	n/a	n/a	VK1300

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

F44687-1, F44687-2, F44687-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
99-87-6	p-Isopropyltoluene	50	51.5	103	80-134
108-10-1	4-Methyl-2-pentanone	250	240	96	69-136
74-83-9	Methyl bromide	50	49.7	99	52-156
74-87-3	Methyl chloride	50	61.8	124	63-142
75-09-2	Methylene chloride	50	48.5	97	51-142
78-93-3	Methyl ethyl ketone	250	249	100	63-138
1634-04-4	Methyl Tert Butyl Ether	50	51.4	103	77-131
91-20-3	Naphthalene	50	50.7	101	75-134
103-65-1	n-Propylbenzene	50	48.7	97	77-125
100-42-5	Styrene	50	51.0	102	74-120
71-55-6	1,1,1-Trichloroethane	50	53.9	108	70-131
79-34-5	1,1,2,2-Tetrachloroethane	50	44.8	90	76-121
79-00-5	1,1,2-Trichloroethane	50	49.9	100	77-118
87-61-6	1,2,3-Trichlorobenzene	50	56.8	114	76-129
96-18-4	1,2,3-Trichloropropane	50	47.9	96	75-121
120-82-1	1,2,4-Trichlorobenzene	50	57.7	115	73-128
95-63-6	1,2,4-Trimethylbenzene	50	48.9	98	79-121
108-67-8	1,3,5-Trimethylbenzene	50	48.3	97	78-126
127-18-4	Tetrachloroethylene	50	58.1	116	68-127
108-88-3	Toluene	50	50.7	101	74-118
79-01-6	Trichloroethylene	50	53.6	107	72-122
75-69-4	Trichlorofluoromethane	50	49.8	100	60-147
75-01-4	Vinyl chloride	50	49.3	99	64-144
108-05-4	Vinyl Acetate	250	315	126	47-132
1330-20-7	Xylene (total)	150	153	102	78-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	78-123%
2037-26-5	Toluene-D8	97%	71-137%
460-00-4	4-Bromofluorobenzene	84%	61-157%
17060-07-0	1,2-Dichloroethane-D4	100%	74-125%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44678-9MS	K029193.D	1	11/03/06	WJ	n/a	n/a	VK1300
F44678-9MSD	K029194.D	1	11/03/06	WJ	n/a	n/a	VK1300
F44678-9	K029192.D	1	11/03/06	WJ	n/a	n/a	VK1300

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

F44687-1, F44687-2, F44687-3

CAS No.	Compound	F44678-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	22000	U	108000	76000	70	73700	68	3	14-140/33
71-43-2	Benzene	2200	U	21700	22200	102	22300	103	0	63-135/23
108-86-1	Bromobenzene	2200	U	21700	22200	102	21400	99	4	56-145/30
74-97-5	Bromochloromethane	2200	U	21700	18500	85	19100	88	3	64-120/23
75-27-4	Bromodichloromethane	2200	U	21700	19900	92	20000	92	1	63-126/23
75-25-2	Bromoform	2200	U	21700	18600	86	19300	89	4	54-109/24
104-51-8	n-Butylbenzene	2200	U	21700	23500	108	23000	106	2	45-159/32
135-98-8	sec-Butylbenzene	2200	U	21700	23200	107	22900	106	1	54-164/31
98-06-6	tert-Butylbenzene	2200	U	21700	22800	105	22700	105	0	60-161/30
108-90-7	Chlorobenzene	2200	U	21700	22600	104	22800	105	1	64-130/24
75-00-3	Chloroethane	2200	U	21700	25000	115	25800	119	3	53-172/28
67-66-3	Chloroform	2200	U	21700	21800	101	21900	101	0	68-131/24
95-49-8	o-Chlorotoluene	2200	U	21700	22000	102	21800	101	1	59-162/32
106-43-4	p-Chlorotoluene	2200	U	21700	21900	101	21900	101	0	59-155/29
56-23-5	Carbon tetrachloride	2200	U	21700	22900	106	23800	110	4	64-148/24
75-34-3	1,1-Dichloroethane	2200	U	21700	22100	102	23100	107	4	64-130/25
75-35-4	1,1-Dichloroethylene	2200	U	21700	21800	101	21900	101	0	55-149/28
563-58-6	1,1-Dichloropropene	2200	U	21700	22900	106	22800	105	0	67-148/25
106-93-4	1,2-Dibromoethane	2200	U	21700	18000	83	18500	85	3	55-107/24
107-06-2	1,2-Dichloroethane	2200	U	21700	19800	91	20500	95	3	60-114/22
78-87-5	1,2-Dichloropropane	2200	U	21700	21400	99	21900	101	2	65-128/23
142-28-9	1,3-Dichloropropane	2200	U	21700	18500	85	18500	85	0	58-114/25
108-20-3	Di-Isopropyl ether	2200	U	21700	21200	98	21600	100	2	66-133/23
594-20-7	2,2-Dichloropropane	2200	U	21700	22000	102	23100	107	5	60-144/27
124-48-1	Dibromochloromethane	2200	U	21700	19500	90	19800	91	2	60-119/23
75-71-8	Dichlorodifluoromethane	2200	U	21700	10800	50	11700	54	8	41-185/30
156-59-2	cis-1,2-Dichloroethylene	2200	U	21700	20800	96	21700	100	4	66-132/24
10061-01-5	cis-1,3-Dichloropropene	2200	U	21700	21200	98	21300	98	0	57-118/25
541-73-1	m-Dichlorobenzene	2200	U	21700	22600	104	22500	104	0	59-138/28
95-50-1	o-Dichlorobenzene	2200	U	21700	21900	101	21700	100	1	56-128/27
106-46-7	p-Dichlorobenzene	2200	U	21700	22400	103	22500	104	0	57-134/26
156-60-5	trans-1,2-Dichloroethylene	2200	U	21700	21600	100	22300	103	3	63-137/27
10061-02-6	trans-1,3-Dichloropropene	2200	U	21700	21600	100	21600	100	0	58-115/25
100-41-4	Ethylbenzene	2200	U	21700	22500	104	23000	106	2	63-142/25
591-78-6	2-Hexanone	11000	U	108000	69500	64	71800	66	3	35-109/34
98-82-8	Isopropylbenzene	2200	U	21700	23700	109	23000	106	3	59-177/29

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44678-9MS	K029193.D	1	11/03/06	WJ	n/a	n/a	VK1300
F44678-9MSD	K029194.D	1	11/03/06	WJ	n/a	n/a	VK1300
F44678-9	K029192.D	1	11/03/06	WJ	n/a	n/a	VK1300

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

F44687-1, F44687-2, F44687-3

CAS No.	Compound	F44678-9 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
99-87-6	p-Isopropyltoluene	2200	U	21700	23000	106	22900	106	0	53-168/31
108-10-1	4-Methyl-2-pentanone	11000	U	108000	74400	69	75800	70	2	44-99/32
74-83-9	Methyl bromide	2200	U	21700	19700	91	20200	93	3	38-188/27
74-87-3	Methyl chloride	2200	U	21700	22500	104	23100	107	3	57-160/29
75-09-2	Methylene chloride	4300	U	21700	20500	95	20500	95	0	40-183/34
78-93-3	Methyl ethyl ketone	11000	U	108000	70900	65	71200	66	0	27-112/32
1634-04-4	Methyl Tert Butyl Ether	2200	U	21700	18200	84	18700	86	3	53-122/28
91-20-3	Naphthalene	2200	U	21700	16400	76	16900	78	3	20-116/35
103-65-1	n-Propylbenzene	2200	U	21700	22600	104	22200	102	2	59-163/31
100-42-5	Styrene	2200	U	21700	21900	101	22400	103	2	54-130/26
71-55-6	1,1,1-Trichloroethane	2200	U	21700	22400	103	22400	103	0	70-149/25
79-34-5	1,1,2,2-Tetrachloroethane	2200	U	21700	17100	79	16500	76	4	45-121/33
79-00-5	1,1,2-Trichloroethane	2200	U	21700	18900	87	19000	88	1	60-114/25
87-61-6	1,2,3-Trichlorobenzene	2200	U	21700	20700	96	20400	94	1	24-135/31
96-18-4	1,2,3-Trichloropropane	2200	U	21700	16900	78	16100	74	5	39-125/32
120-82-1	1,2,4-Trichlorobenzene	2200	U	21700	22600	104	22200	102	2	23-142/31
95-63-6	1,2,4-Trimethylbenzene	2200	U	21700	22200	102	22300	103	0	50-161/32
108-67-8	1,3,5-Trimethylbenzene	2200	U	21700	22400	103	22400	103	0	57-164/31
127-18-4	Tetrachloroethylene	13200		21700	32100	87	33800	95	5	54-154/27
108-88-3	Toluene	2200	U	21700	22800	105	22300	103	2	62-142/29
79-01-6	Trichloroethylene	2200	U	21700	23000	106	23100	107	0	59-143/25
75-69-4	Trichlorofluoromethane	2200	U	21700	20400	94	20800	96	2	59-171/28
75-01-4	Vinyl chloride	2200	U	21700	19200	89	19700	91	3	64-165/27
108-05-4	Vinyl Acetate	11000	U	108000	106000	98	108000	100	2	13-113/42
1330-20-7	Xylene (total)	6500	U	65000	68000	105	68600	106	1	64-142/24

CAS No.	Surrogate Recoveries	MS	MSD	F44678-9	Limits
1868-53-7	Dibromofluoromethane	95%	98%	99%	78-123%
2037-26-5	Toluene-D8	99%	100%	101%	71-137%
460-00-4	4-Bromofluorobenzene	86%	86%	82%	61-157%
17060-07-0	1,2-Dichloroethane-D4	84%	84%	91%	74-125%

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-MB	R05761.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44687-1, F44687-2

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	330	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-MB	R05761.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44687-1, F44687-2

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	85%	45-114%
4165-62-2	Phenol-d5	87%	44-124%
118-79-6	2,4,6-Tribromophenol	87%	50-128%
4165-60-0	Nitrobenzene-d5	79%	41-123%
321-60-8	2-Fluorobiphenyl	81%	46-122%
1718-51-0	Terphenyl-d14	80%	45-135%

Blank Spike Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-BS	R05760.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44687-1, F44687-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	1960	59	48-121
95-57-8	2-Chlorophenol	1670	1070	64	61-101
59-50-7	4-Chloro-3-methyl phenol	1670	1180	71	63-107
120-83-2	2,4-Dichlorophenol	1670	1160	70	65-106
105-67-9	2,4-Dimethylphenol	1670	964	58	53-96
51-28-5	2,4-Dinitrophenol	3330	2020	61	42-122
534-52-1	4,6-Dinitro-o-cresol	3330	2400	72	60-122
95-48-7	2-Methylphenol	1670	1020	61	58-98
	3&4-Methylphenol	3330	2220	67	58-99
88-75-5	2-Nitrophenol	1670	1100	66	59-103
100-02-7	4-Nitrophenol	3330	2340	70	66-111
87-86-5	Pentachlorophenol	3330	2610	78	58-120
108-95-2	Phenol	1670	1110	67	59-104
88-06-2	2,4,6-Trichlorophenol	1670	1200	72	66-106
83-32-9	Acenaphthene	1670	1200	72	63-100
208-96-8	Acenaphthylene	1670	1170	70	62-100
120-12-7	Anthracene	1670	1250	75	67-104
56-55-3	Benzo(a)anthracene	1670	1110	67	66-107
50-32-8	Benzo(a)pyrene	1670	1230	74	63-106
205-99-2	Benzo(b)fluoranthene	1670	1270	76	65-110
191-24-2	Benzo(g,h,i)perylene	1670	1170	70	60-107
207-08-9	Benzo(k)fluoranthene	1670	1290	77	66-111
101-55-3	4-Bromophenyl phenyl ether	1670	1230	74	66-108
85-68-7	Butyl benzyl phthalate	1670	1070	64	62-112
100-51-6	Benzyl Alcohol	1670	1130	68	60-103
91-58-7	2-Chloronaphthalene	1670	1130	68	62-98
106-47-8	4-Chloroaniline	1670	828	50	20-87
218-01-9	Chrysene	1670	1130	68	66-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1010	61	54-98
111-44-4	bis(2-Chloroethyl)ether	1670	1040	62	57-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	966	58	48-102
7005-72-3	4-Chlorophenyl phenyl ether	1670	1170	70	65-106
95-50-1	1,2-Dichlorobenzene	1670	1020	61	50-97
122-66-7	1,2-Diphenylhydrazine	1670	1180	71	65-106
541-73-1	1,3-Dichlorobenzene	1670	960	58	46-94
106-46-7	1,4-Dichlorobenzene	1670	997	60	47-95

Blank Spike Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-BS	R05760.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44687-1, F44687-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1170	70	60-107
606-20-2	2,6-Dinitrotoluene	1670	1110	67	59-103
91-94-1	3,3'-Dichlorobenzidine	1670	785	47	32-91
53-70-3	Dibenzo(a,h)anthracene	1670	1210	73	59-108
132-64-9	Dibenzofuran	1670	1150	69	64-103
84-74-2	Di-n-butyl phthalate	1670	1150	69	64-109
117-84-0	Di-n-octyl phthalate	1670	1230	74	64-123
84-66-2	Diethyl phthalate	1670	1180	71	61-112
131-11-3	Dimethyl phthalate	1670	1170	70	63-107
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1040	62	62-114
206-44-0	Fluoranthene	1670	1260	76	64-110
86-73-7	Fluorene	1670	1200	72	63-102
118-74-1	Hexachlorobenzene	1670	1230	74	64-104
87-68-3	Hexachlorobutadiene	1670	1010	61	56-99
77-47-4	Hexachlorocyclopentadiene	1670	1100	66	32-93
67-72-1	Hexachloroethane	1670	945	57	47-96
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1200	72	60-110
78-59-1	Isophorone	1670	1140	68	60-100
91-57-6	2-Methylnaphthalene	1670	1150	69	60-104
91-20-3	Naphthalene	1670	1080	65	58-96
98-95-3	Nitrobenzene	1670	1080	65	58-98
621-64-7	N-Nitroso-di-n-propylamine	1670	1080	65	54-95
86-30-6	N-Nitrosodiphenylamine	1670	1180	71	66-106
85-01-8	Phenanthrene	1670	1250	75	66-105
129-00-0	Pyrene	1670	1130	68	66-109
120-82-1	1,2,4-Trichlorobenzene	1670	1060	64	58-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	67%	45-114%
4165-62-2	Phenol-d5	69%	44-124%
118-79-6	2,4,6-Tribromophenol	76%	50-128%
4165-60-0	Nitrobenzene-d5	64%	41-123%
321-60-8	2-Fluorobiphenyl	67%	46-122%
1718-51-0	Terphenyl-d14	67%	45-135%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-MS	R05766.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
OP18412-MSD	R05767.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
F44735-2	R05765.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44687-1, F44687-2

CAS No.	Compound	F44735-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		4810	1930	40	1170	24	49*	10-124/35
95-57-8	2-Chlorophenol	ND		2410	1630	68	1630	67	0	46-99/28
59-50-7	4-Chloro-3-methyl phenol	ND		2410	1710	71	1670	69	2	51-106/24
120-83-2	2,4-Dichlorophenol	ND		2410	1710	71	1690	70	1	51-105/24
105-67-9	2,4-Dimethylphenol	ND		2410	1420	59	1380	57	3	47-95/27
51-28-5	2,4-Dinitrophenol	ND		4810	1530	32	1040	21	38	10-114/50
534-52-1	4,6-Dinitro-o-cresol	ND		4810	2360	49	1700	35	33	11-120/39
95-48-7	2-Methylphenol	ND		2410	1530	64	1550	64	1	48-96/26
	3&4-Methylphenol	ND		4810	3270	68	3260	67	0	50-95/26
88-75-5	2-Nitrophenol	ND		2410	1640	68	1640	68	0	36-109/29
100-02-7	4-Nitrophenol	ND		4810	3500	73	3200	66	9	50-107/25
87-86-5	Pentachlorophenol	ND		4810	3700	77	3200	66	14	45-118/30
108-95-2	Phenol	ND		2410	1680	70	1700	70	1	44-105/27
88-06-2	2,4,6-Trichlorophenol	ND		2410	1730	72	1680	69	3	56-103/23
83-32-9	Acenaphthene	ND		2410	1730	72	1720	71	1	47-106/28
208-96-8	Acenaphthylene	ND		2410	1710	71	1690	70	1	48-102/24
120-12-7	Anthracene	ND		2410	1820	76	1780	73	2	52-108/26
56-55-3	Benzo(a)anthracene	ND		2410	1600	67	1540	64	4	54-106/26
50-32-8	Benzo(a)pyrene	ND		2410	1800	75	1760	73	2	53-104/25
205-99-2	Benzo(b)fluoranthene	ND		2410	1850	77	1820	75	2	53-109/27
191-24-2	Benzo(g,h,i)perylene	ND		2410	1670	69	1640	68	2	53-104/28
207-08-9	Benzo(k)fluoranthene	ND		2410	1820	76	1780	73	2	55-107/29
101-55-3	4-Bromophenyl phenyl ether	ND		2410	1780	74	1730	71	3	59-102/23
85-68-7	Butyl benzyl phthalate	ND		2410	1520	63	1470	61	3	58-105/23
100-51-6	Benzyl Alcohol	ND		2410	1760	73	1810	75	3	52-97/30
91-58-7	2-Chloronaphthalene	ND		2410	1670	69	1650	68	1	54-92/24
106-47-8	4-Chloroaniline	ND		2410	1240	52	1080	45	14	21-92/35
218-01-9	Chrysene	ND		2410	1630	68	1570	65	4	54-108/26
111-91-1	bis(2-Chloroethoxy)methane	ND		2410	1480	62	1500	62	1	44-94/27
111-44-4	bis(2-Chloroethyl)ether	ND		2410	1600	67	1580	65	1	40-104/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		2410	1460	61	1450	60	1	40-91/29
7005-72-3	4-Chlorophenyl phenyl ether	ND		2410	1720	72	1700	70	1	57-101/22
95-50-1	1,2-Dichlorobenzene	ND		2410	1550	64	1580	65	2	36-88/34
122-66-7	1,2-Diphenylhydrazine	ND		2410	1700	71	1650	68	3	52-107/23
541-73-1	1,3-Dichlorobenzene	ND		2410	1450	60	1510	62	4	30-85/33
106-46-7	1,4-Dichlorobenzene	ND		2410	1470	61	1520	63	3	30-87/33

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18412-MS	R05766.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
OP18412-MSD	R05767.D	1	11/06/06	NJ	11/06/06	OP18412	SR271
F44735-2	R05765.D	1	11/06/06	NJ	11/06/06	OP18412	SR271

The QC reported here applies to the following samples: **Method:** SW846 8270C

F44687-1, F44687-2

CAS No.	Compound	F44735-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	ND		2410	1760	73	1700	70	3	46-105/28
606-20-2	2,6-Dinitrotoluene	ND		2410	1690	70	1600	66	5	46-102/26
91-94-1	3,3'-Dichlorobenzidine	ND		2410	1250	52	1140	47	9	22-104/35
53-70-3	Dibenzo(a,h)anthracene	ND		2410	1720	72	1690	70	2	53-103/26
132-64-9	Dibenzofuran	ND		2410	1690	70	1690	70	0	53-103/27
84-74-2	Di-n-butyl phthalate	ND		2410	1670	69	1640	68	2	55-104/22
117-84-0	Di-n-octyl phthalate	ND		2410	1760	73	1750	72	1	61-115/24
84-66-2	Diethyl phthalate	ND		2410	1750	73	1690	70	3	54-104/22
131-11-3	Dimethyl phthalate	ND		2410	1720	72	1670	69	3	55-100/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2410	1480	62	1480	61	0	56-110/25
206-44-0	Fluoranthene	ND		2410	1850	77	1800	74	3	52-109/28
86-73-7	Fluorene	ND		2410	1770	74	1720	71	3	55-99/26
118-74-1	Hexachlorobenzene	ND		2410	1740	72	1700	70	2	57-99/23
87-68-3	Hexachlorobutadiene	ND		2410	1520	63	1530	63	1	36-97/35
77-47-4	Hexachlorocyclopentadiene	ND		2410	1580	66	1570	65	1	10-88/50
67-72-1	Hexachloroethane	ND		2410	1410	59	1450	60	3	22-90/41
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2410	1720	72	1650	68	4	53-108/29
78-59-1	Isophorone	ND		2410	1660	69	1680	69	1	46-99/26
91-57-6	2-Methylnaphthalene	ND		2410	1690	70	1740	72	3	45-104/28
91-20-3	Naphthalene	ND		2410	1630	68	1610	66	1	44-94/31
98-95-3	Nitrobenzene	ND		2410	1620	67	1610	66	1	43-97/29
621-64-7	N-Nitroso-di-n-propylamine	ND		2410	1620	67	1620	67	0	40-98/27
86-30-6	N-Nitrosodiphenylamine	ND		2410	1690	70	1650	68	2	55-104/22
85-01-8	Phenanthrene	ND		2410	1830	76	1770	73	3	53-106/26
129-00-0	Pyrene	ND		2410	1630	68	1550	64	5	55-111/30
120-82-1	1,2,4-Trichlorobenzene	ND		2410	1570	65	1600	66	2	41-95/32

CAS No.	Surrogate Recoveries	MS	MSD	F44735-2	Limits
367-12-4	2-Fluorophenol	73%	72%	68%	45-114%
4165-62-2	Phenol-d5	73%	73%	70%	44-124%
118-79-6	2,4,6-Tribromophenol	78%	75%	73%	50-128%
4165-60-0	Nitrobenzene-d5	68%	66%	64%	41-123%
321-60-8	2-Fluorobiphenyl	68%	66%	64%	46-122%
1718-51-0	Terphenyl-d14	66%	64%	67%	45-135%

GC Volatiles

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QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD3006-MB	CD072666.D	1	11/02/06	MM	n/a	n/a	GCD3006

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

F44687-1, F44687-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	80%	62-135%
98-08-8	aaa-Trifluorotoluene	81%	65-118%

Blank Spike Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD3006-BS	CD072665.D	1	11/02/06	MM	n/a	n/a	GCD3006

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

F44687-1, F44687-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	18.9	95	66-122

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	80%	62-135%
98-08-8	aaa-Trifluorotoluene	91%	65-118%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F44865-7MS	CD072680.D	1	11/02/06	MM	n/a	n/a	GCD3006
F44865-7MSD	CD072681.D	1	11/02/06	MM	n/a	n/a	GCD3006
F44865-7	CD072679.D	1	11/02/06	MM	n/a	n/a	GCD3006

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

F44687-1, F44687-2

CAS No.	Compound	F44865-7 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		30.3	28.9	95	28.7	95	1	37-142/17

CAS No.	Surrogate Recoveries	MS	MSD	F44865-7	Limits
460-00-4	4-Bromofluorobenzene	92%	92%	77%	62-135%
98-08-8	aaa-Trifluorotoluene	102%	90%	81%	65-118%

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18385-MB	ZF22097.D	1	11/03/06	ME	11/02/06	OP18385	GZF1030

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

F44687-1, F44687-2

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

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	75%	57-115%

Method Blank Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18385-MB	ZF22133.D	1	11/06/06	ME	11/02/06	OP18385	GZF1031

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

F44687-1, F44687-2

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

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	89%	57-115%

Blank Spike Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18385-BS	ZF22096.D	1	11/03/06	ME	11/02/06	OP18385	GZF1030

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

F44687-1, F44687-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	25.3	76	62-114

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	77%	57-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F44687
Account: OSAGEVAN Osage of Virginia
Project: TT2453: Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP18385-MS	ZF22113.D	1	11/03/06	ME	11/02/06	OP18385	GZF1030
OP18385-MSD	ZF22114.D	1	11/03/06	ME	11/02/06	OP18385	GZF1030
F44647-3	ZF22112.D	1	11/03/06	ME	11/02/06	OP18385	GZF1030

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

F44687-1, F44687-2

CAS No.	Compound	F44647-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	ND		37.1	33.1	89	32.0	86	3	31-136/36

CAS No.	Surrogate Recoveries	MS	MSD	F44647-3	Limits
84-15-1	o-Terphenyl	85%	80%	67%	57-115%