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SAMPLING AND ANALYSIS REPORT FOR NORTH-SOUTH HIGH-SPEED REFUELERS BASE REALIGNMENT AND CLOSURE NAS CECIL FIELD FL

6/1/2001

TETRA TECH NUS INC

Sampling and Analysis Report
for
North-South High-Speed Refuelers
Base Realignment and Closure

Naval Air Station Cecil Field
Jacksonville, Florida

Southern Division
Naval Facilities Engineering Command

Contract Number N62467-94-D-0888

Contract Task Order 0078

June 2001

020109/P

SAMPLING AND ANALYSIS REPORT
FOR
NORTH-SOUTH HIGH SPEED REFUELERS

BASE REALIGNMENT AND CLOSURE

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
Southern Division
Naval Facilities Engineering Command
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North Charleston, South Carolina 29406

Submitted by:
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CONTRACT NUMBER N62467-94-D-0888
CONTRACT TASK ORDER 0078

JUNE 2001

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The professional opinions rendered in this decision document identified as Sampling and Analysis Report for North-South High-Speed Refuelers (NSHSR), Naval Air Station Cecil Field, Jacksonville, Florida were developed in accordance with commonly accepted procedures consistent with applicable standards of practice. Decision documents are based on information obtained from others and under the supervision of the signing engineer. If conditions are determined to exist differently than those described in this document, then the undersigned professional engineer should be notified to evaluate the effects of any additional information on the project described in this report.

Mark Speranza

Mark Speranza, P.E.
Professional Engineering No. PE0050304

Mark Speranza

CERTIFICATION OF TECHNICAL
DATA CONFORMITY

The Contractor, Tetra Tech NUS, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-94-D-0888 are complete and accurate and comply with all requirements of this contract.

DATE: June 14, 2001

NAME AND TITLE OF CERTIFYING OFFICIAL: Mark Speranza, P.E.
Task Order Manager

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ACRONYMS

BaP	Benzo(a)pyrene
BaPEq	BaP equivalents
BCT	BRAC Cleanup Team
bgs	below ground surface
BRAC	Base Realignment and Closure
BTEX	benzene, toluene, ethylbenzene and xylenes
CLEAN	Comprehensive Long-Term Environmental Action Navy
CTO	Contract Task Order
DPT	direct push technology
EISOPQAM	Environmental Investigations Standard Operating Procedures and Quality Assurance Manual
ELCR	excess lifetime cancer risk
FDEP	Florida Department of Environmental Protection
FL-PRO	Florida Petroleum Residual Organics
HLA	Harding Lawson Associates
MB 18	Main Base Area 18
µg/kg	microgram per killogram
NAS	Naval Air Station
NSHSR	North-South High Speed Refuelers
PAH	polynuclear aromatic hydrocarbon
PRE	Preliminary Risk Evaluation
RAC	Remedial Action Contractor
RBC	risk-based concentration
SAR	Sampling and Analysis Report
SCTL	Soil Cleanup Target Level
SOUTHNAVFACENGCOM	Southern Division, Naval Facilities Engineering Command
TCL	Target Compound List
TtNUS	Tetra Tech NUS, Inc.
TRPH	total recoverable petroleum hydrocarbons
U.S. EPA	U.S. Environmental Protection Agency
VOC	volatile organic compound

1.0 INTRODUCTION

This Sampling and Analysis Report (SAR) for the North-South High-Speed Refuelers (NSHSR) at Naval Air Station (NAS) Cecil Field in Jacksonville, Florida has been prepared by Tetra Tech NUS, Inc. (TtNUS), for the Department of the Navy, Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM). The work was conducted under the Comprehensive Long-Term Environmental Action Navy (CLEAN) Program, Contract Number N6247-94-D-0888, Contract Task Order (CTO) 0078.

The NSHSR are located between the north-south taxiways A (Alpha) and D (Delta), opposite Building 67, as shown on Figures 1-1 and 1-2. In previous investigations, the NSHSR were included in the Main Base Area 18 (MB18) of NAS Cecil Field. During operation of the facility, jet aircraft taxied into one of the high-speed refuelers, and the jet tanks were refilled with aviation fuel.

The general layout of the site consists of four concrete paved taxiways separated by grassy areas. In the case of large spills during refueling, a series of catch basins, sumps, and curbing was used to divert the spilled fuel away from grassy areas and from the taxiway's storm sewer system. It is believed that, if spills occurred, the fuel passed into the catch basins and would be eventually removed.

During a previous investigation of MB18 (HLA, 1999), two soil samples were taken in the vicinity of the NSHSR. In one sample, methylene chloride was the only organic compound detected. There were no detections of fuel-related compounds such as benzene, toluene, ethylbenzene, and xylenes (BTEX), or polynuclear aromatic hydrocarbons (PAHs) in either sample. No other surface or subsurface soil contamination was detected during this investigation. In addition, groundwater samples were collected downgradient of the NSHSR, using DPT, at seven locations. In general, two samples were collected at each location, one near the water table at a depth of 15 feet below ground surface (bgs), and one at a depth of 35 feet bgs. There were no detections of PAHs or BTEX in the DPT samples (HLA, 1999). A copy of the analytical results for the MB-18 DPT samples and a map of sample locations is presented in Appendix A.

This SAR presents information from the previous investigations and summarizes the related field operations, results, conclusions, and recommendations of the investigation conducted by TtNUS in November 1999 through March 2000, and the activities related to the removal action as described in the Source Removal Report for NSHSR (CH2M Hill, 2001). The results of the investigations and the subsequent removal action indicate that no further action is needed at this site.

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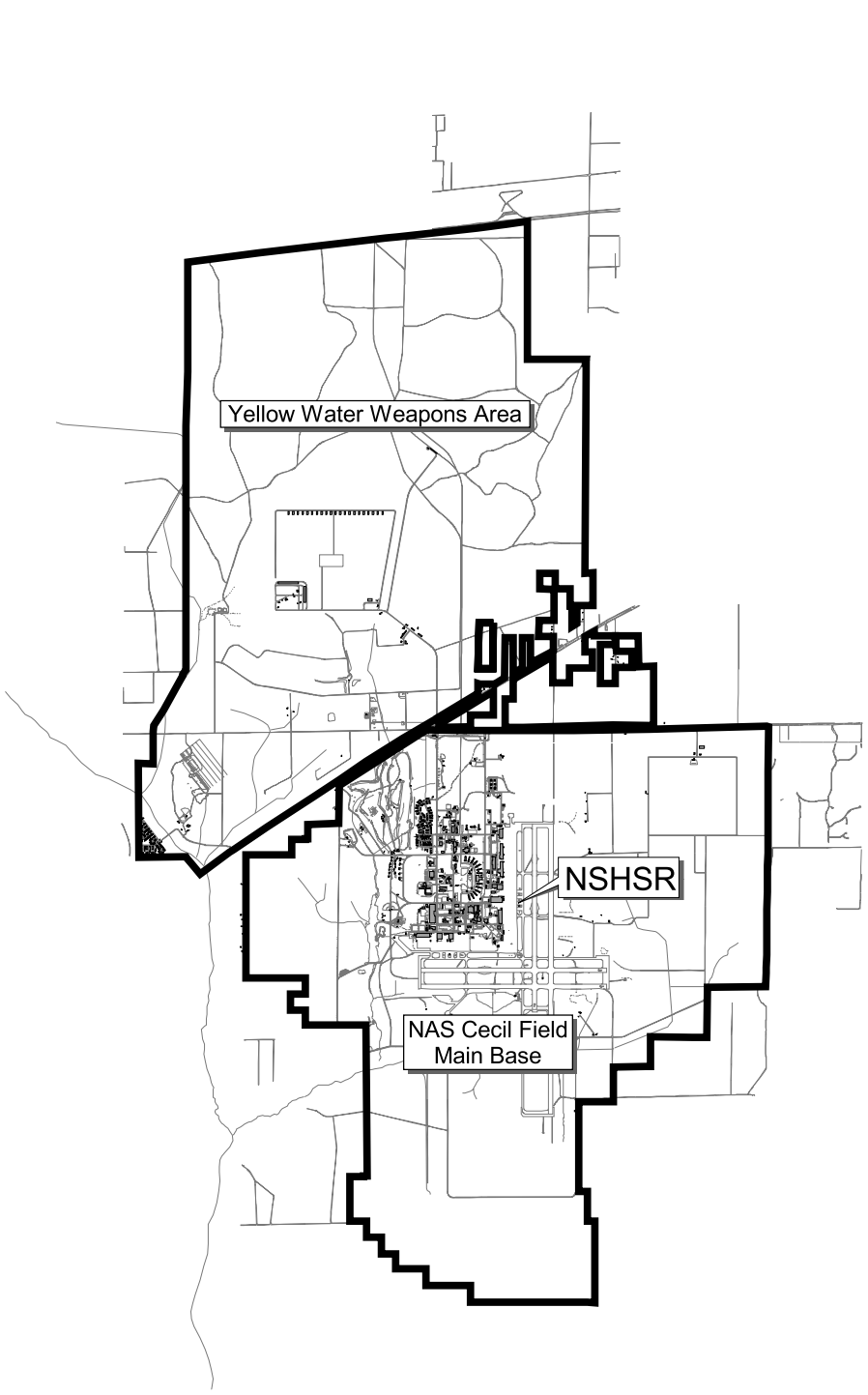
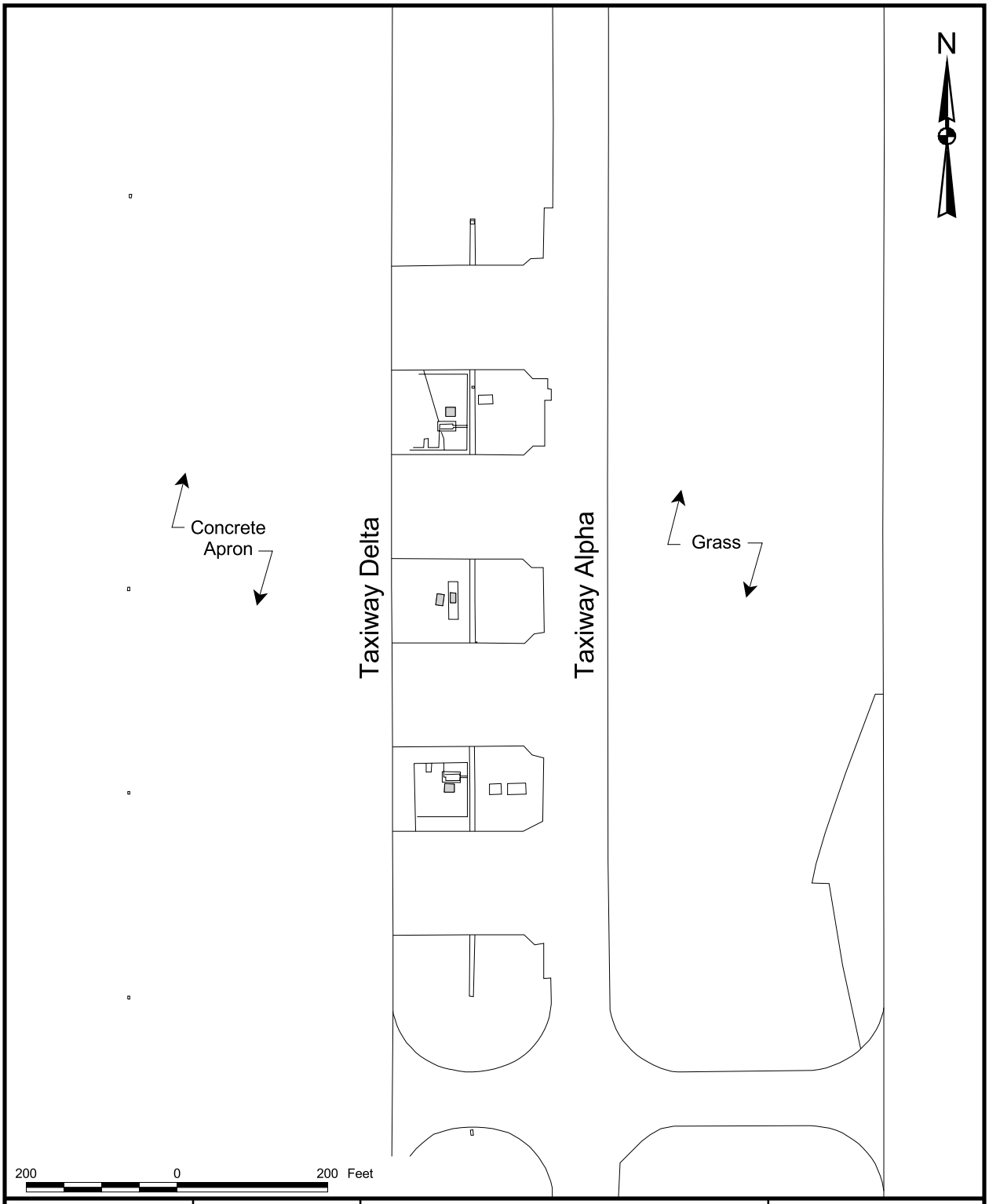


DRAWN BY MJJ	DATE 14Feb01	GENERAL LOCATION MAP NORTH-SOUTH HIGH SPEED REFUELERS NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY	DATE		APPROVED BY GND — DATE 6-14-01
COST/SCHEDULE-AREA			APPROVED BY — DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1-1 — REV 1

P:\GIS\NAS_CecilField\NSHSR-TechMemo.apr 10Mar01 MJJ 2-1_Phase I Layout Layout 1-1



DRAWN BY MJJ	DATE 27Feb01	SITE LOCATION MAP NORTH-SOUTH HIGH SPEED REFUELERS NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY	DATE		APPROVED BY GND / DATE 6-14-01
COST/SCHEDULE-AREA			APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1-2 / REV 1

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2.0 FIELD INVESTIGATION

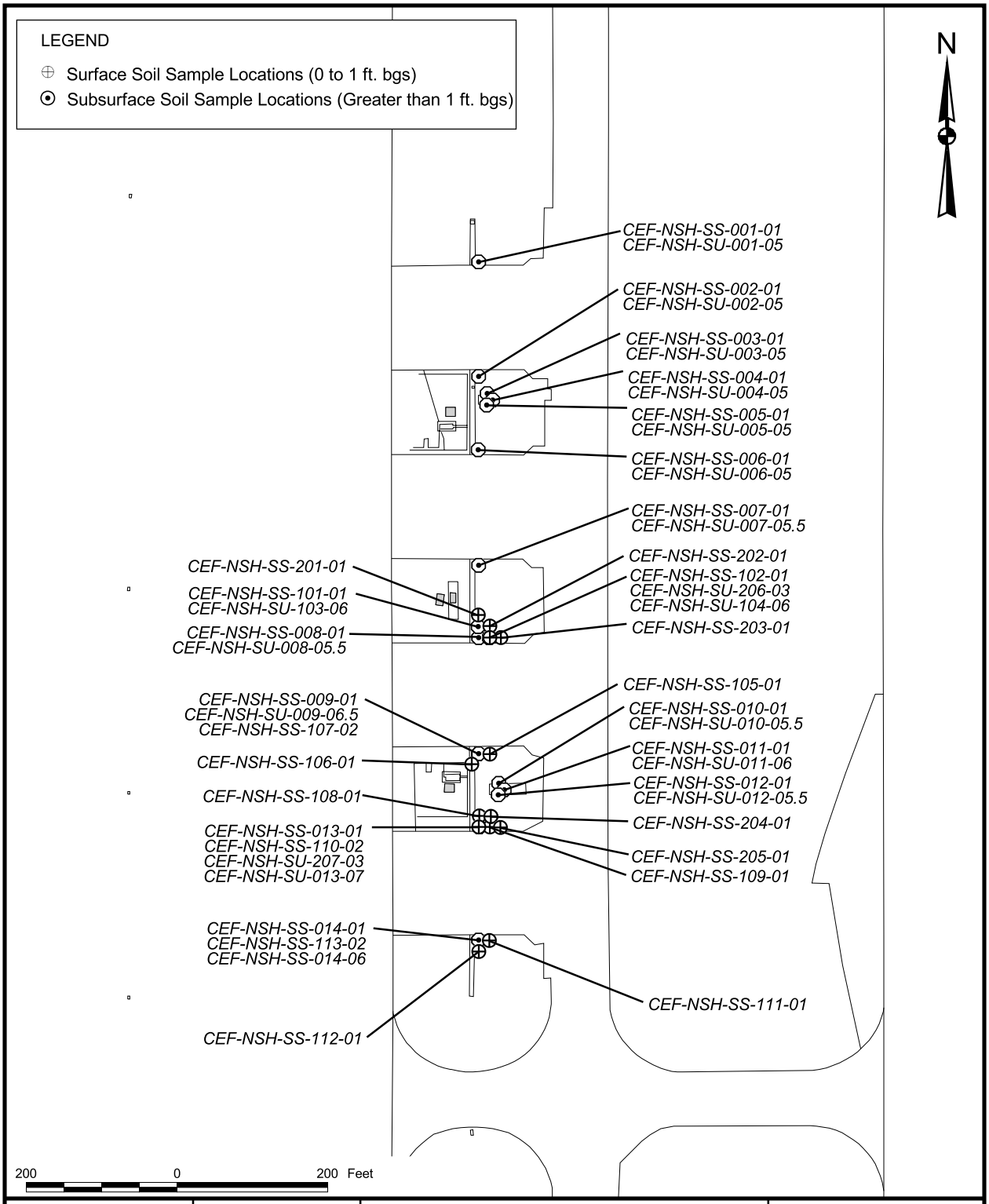
Due to previous fuel-handling practices and the potential for spills to have occurred, TtNUS began the first phase of soil sampling (Phase I) at the NSHSR in November 1999 (TtNUS, 1999). The field activities included collecting 28 surface soil samples at 0 to 1 foot bgs and 28 soil samples obtained at the 5-to-7 feet bgs interval. The samples were taken near the sumps and catch basins at NSHSR (sampling locations are shown on Figure 2-1). The samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), PAHs, and total recoverable petroleum hydrocarbons (TRPH).

Based on the results of the Phase I samples, TtNUS initiated a second phase of sampling (Phase II) in late January 2000. During this sampling event, 11 soil samples were collected. Three of the samples (CEF-NSH-SS-107-02, CEF-NSH-SS-110-02, and CEF-NSH-SS-113-02) were collected at the same location as samples from the Phase I investigation but at the 1-to-2 feet bgs interval. The remaining eight samples were collected 15 feet from the Phase I sample locations, at a depth of 0 to 1 foot bgs. Additionally, two subsurface soil samples (CEF-NSH-SU-103-06 and CEF-NSH-SU-104-06) were taken at a depth of 6 feet bgs (1 foot above the water table). The sampling locations for this event are shown on Figure 2-1. Based on the results from the Phase I sampling event, the samples were analyzed for PAHs only. During the first and second soil sampling phases, a total of three quality assurance/quality control (QA/QC) samples were collected, including two field duplicates and one laboratory matrix spike.

Based on the results of the Phase I and Phase II sampling events, TtNUS initiated a third phase of soil sampling (Phase III) in March 2000 that consisted of collecting seven additional soil samples to further delineate the horizontal and vertical extent of PAH contamination. Five of the samples (CEF-NSH-SS-201-01, CEF-NSH-SS-202-01, CEF-NSH-SS-203-01, CEF-NSH-SS-204-01, and CEF-NSH-SS-205-01) were taken 15 feet north or east of previous sample locations. Two of the Phase III samples (CEF-NSH-206-03 and CEF-NSH-207-03) were collected below previous sampling locations at a 2 to 3 feet bgs. The locations of these soil samples are shown on Figure 2-1. The collected samples were analyzed for PAHs. For the Phase III sampling event, two QA/QC samples were collected, including one field duplicate and one laboratory matrix spike.

All surface soil samples in the three sampling phases were collected as grab samples using plastic, disposable trowels. Subsurface soil samples were collected using a hand auger. Sampling activities were performed in accordance with the procedures described in the U.S. Environmental Protection Agency (U.S. EPA) Region IV Environmental Investigations Standard Operating Procedures and Quality Assurance Manual (EISOPQAM) (U.S. EPA, 1996) and the NAS Cecil Field Base-Wide Generic Work Plan (TtNUS, 1998). As agreed by the BCT, no rinsate and trip blanks were collected. In addition, field blanks were not collected because the sampling equipment was disposable.

Soil samples were analyzed for VOCs using U.S. EPA Method SW-846 5035/8260B, PAHs using U.S. EPA Method SW-846 8310 and TRPH using the Florida Petroleum Residual Organics (FL-PRO) method. ACCUTEST SouthEast, in Orlando, Florida performed the analyses.



DRAWN BY MJJ	DATE 12Feb01	SAMPLE LOCATION MAP NORTH-SOUTH HIGH SPEED REFUELERS NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY	DATE		APPROVED BY GND — DATE 6-14-01
COST/SCHEDULE-AREA			APPROVED BY — DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2-1 — REV 1

P:\GIS\NAS_CecilField\NSHSR-TechMemo.apr 27Mar01 MJJ 2-1_Sample Location Layout

3.0 DATA EVALUATION AND REMOVAL ACTION

As shown on Table 3-1 and Figure 3-1, PAHs were detected in four Phase I samples, four Phase II samples, and one Phase III sample in concentrations that exceeded Florida Department of Environmental Protection (FDEP) residential Soil Contaminant Target Levels (SCTLs). Benzo(a)pyrene (BaP) was detected in eight samples ranging in concentrations from 134 µg/kg (CEF-NSH-SS-008-01) to 719 µg/kg (CEF-NSH-SS-102-01). Dibenzo(a,h)anthracene was found at concentrations of 1,160 µg/kg, 6,100 µg/kg, and 144 µg/kg at locations CEF-NSH-SS-008-01, CEF-NSH-SU-008-06, and CEF-NSH-SS-102-01, respectively. Two other PAHs, benzo(a)anthracene and benzo(b)fluoranthene, were detected at concentrations less than their SCTLs at sampling location CEF-NSH-SS-102-01. Laboratory analytical results are included in Appendix B.

3.1 HUMAN HEALTH PRELIMINARY RISK EVALUATION

The results of the sampling at the NSHSR identified the extent of PAH contamination in excess of the FDEP residential SCTLs. The main compounds of concern were BaP and dibenzo(a,h)anthracene due to their relatively high concentrations and low SCTLs. A statistical based approach was used to determine how much excavation would be required to remediate the PAH contamination at this site. It was determined that not all samples with these compounds in concentrations greater than their individual SCTLs would need to be removed. The exceedance of a criterion by an individual sample does not necessarily indicate a significant exceedance of a target risk level. Exposure to BaP and dibenzo(a,h)anthracene in the soil is a result of exposure to an area, not an individual sampling location. Therefore, the entire data set was used to determine a post-excavation exposure concentration that would be less than the FDEP SCTLs for the individual contaminants.

The exposure concentrations for BaP and dibenzo(a,h)anthracene at NSHSR are best represented by the 95 percent upper confidence limit (UCL) of the mean. The UCL of BaP at the NSHSR was 77.36 µg/kg. Although this value is less than the FDEP SCTL criteria value, the UCL for benzo(a)pyrene equivalents (BaPEq), compounds chemically similar to BaP, was 306 µg/kg, which does exceed the SCTL criteria. The UCL for dibenzo(a,h)anthracene was calculated to be 196 µg/kg. This value exceeds the FDEP SCTL of 100 µg/kg for surface soil. The pre- and post-excavation data analysis is provided in Table 3-2.

Because carcinogenic PAHs (CPAHs) were detected at concentrations greater than the residential SCTLs, the BCT agreed that CPAHs should be regarded as a family of compounds and their concentrations should be defined in terms of BaPEq. Total BaPEq concentrations were derived for each sample using the U.S. EPA toxicity equivalent factors (TEF) (U.S. EPA, 1995). If a specific CPAH within

a sample was not detected, one-half its detection limit was used in the calculation of BaPEq. If no CPAHs were detected within a sample, one-half the detection limit of BaP was used in the calculation.

The statistical based approach, used to determine the PAH concentrations above which the soil must be removed to achieve a UCL less than or equal to the FDEP SCTL, involves an iterative process. In theory, the sampling locations with the highest PAH concentrations would be excavated and replaced with clean fill. The clean fill for this site was collected from the North Fuel Farm Clean Pile 9. Analysis of the fill material indicated that the concentration of benzo(a)pyrene was 11 µg/kg and the total concentration of its equivalents was 147 µg/kg. Dibenzo(a,h)anthracene was not detected in the clean fill above its detection limit of 197 µg/kg. Because of this, the excavated sample points were assumed to be replaced with a clean fill having a dibenzo(a,h)anthracene concentration of 98.5 µg/kg, a value equal to one-half the detection limit. The data set was then evaluated in a stepwise manner by replacing the highest concentrations with clean fill concentrations, and then recalculating the UCL. When the UCL was less than the FDEP SCTL, the calculations were stopped.

This iterative process indicated that the soil located around samples CEF-NSH-SS-008-01 and CEF-NSH-SS-101-01 would require removal to achieve a UCL less than FDEP SCTLs. This area is shown on Figure 3-1. Some samples within the shaded area have concentrations less than the amount necessary to reach the SCTLs, but were included to facilitate definition of the excavated area. Based on the fact that the post-remediation UCLs are less than FDEP SCTLs, a Human Health Preliminary Risk Evaluation (PRE) is not required.

3.2 ECOLOGICAL PRELIMINARY RISK EVALUATION

The NSHSR site is primarily concrete paved with areas of maintained turf grass. The only ecological habitat available at this site is limited to the turf grass. Based on the marginal quality of this habitat and the noise and activities associated with human activity in the area, terrestrial receptor use of this habitat is negligible. For this reason, potential risks to ecological receptors from direct contact, as well as risks to upper-level receptors via the food chain, are not a concern and were not investigated further.

3.3 REMOVAL ACTION

Based on the soil investigations conducted at the NSHSR, the BRAC Cleanup Team (BCT) determined that the best course of action to reduce risks associated with the site was to remove the contaminated soils. A source removal was conducted at the NSHSR on August 24, 2000, and a total of 303 tons of PAH-contaminated soil were excavated from the area surrounding the aforementioned sampling locations. Soils were excavated to the horizontal limits as specified in the Dig and Haul Package for NSHSR (TtNUS, 2000b) and as shown on Figure 3-2. Initially, the depth to the water table was estimated

at approximately 6 feet bgs, and the excavation was proposed to extend to 1 foot below the water table (7 feet bgs). However, due to drier conditions at the time of excavation (summer), the actual excavation went to a depth of 12 feet bgs. The excavated soil was transported and disposed off site the same day that the soil removal occurred. The soil was excavated using a hydraulic track excavator and was loaded directly into tarp-covered dump trucks for transportation and disposal. The soil was characterized prior to disposal by the remedial action contractor (RAC). The excavated soil was transported by Beaver Bulk Trucking to the Broadhurst Landfill, a Subtitle D solid waste disposal facility in Jessup, Georgia (CH2M Hill, 2001).

Clean fill material from the North Fuel Farm Clean Pile 9 was used to backfill the excavation. The site was graded and seeded with hydro-seed containing a mixture of brown millet, rye, bahia grass, fertilizer, and mulch. No confirmatory soil sampling was performed (CH2M Hill, 2001).

Detailed information on the remedial activities, including photographs, laboratory results, copies of the soil manifests, certificates of disposal, and certificate of clean fill, is provided in the Source Removal Report (CH2M Hill, 2001).

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TABLE 3-1

ANALYTICAL RESULTS FOR SURFACE SOIL
FIELD INVESTIGATIONS
NORTH-SOUTH HIGH SPEED REFUELERS
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE 1 / NOVEMBER 1999 CEF-NSH-								
	Residential Direct Exposure	Leachability to Groundwater	SS-001 0-1 ft	SS-002 0-1 ft	SS-003 0-1 ft	SS-004 0-1 ft	SS-005 0-1 ft	SS-006 0-1 ft	SS-007 0-1 ft	SS-008 0-1 ft	SS-009 (AVG) 0-1 ft
Polynuclear Aromatic Hydrocarbons (mg/kg)											
1-Methylnaphthalene	68000	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	80000	6100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	1900000	2100	ND	ND	ND	ND	ND	ND	ND	127	269
Acenaphthylene	1100000	27000	ND	ND	ND	ND	ND	ND	227	ND	ND
Anthracene	18000000	2500000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1400	3200	20.8	ND	ND	ND	ND	22.3	19.7	86.6	117
Benzo(a)pyrene	100	8000	14.8	69.3	12.9	ND	ND	22.2	24.5	**134**	**207**
Benzo(b)fluoranthene	1400	10000	22.5	10	ND	ND	ND	17.1	19.9	81.1	146
Benzo(g,h,i)perylene	2300000	32000000	31	25.9	22.8	13.6	ND	35.9	32.1	83.4	117
Benzo(k)fluoranthene	15000	25000	11.4	10.4	11.4	ND	ND	11.7	12.4	46.6	40
Chrysene	140000	77000	30.4	ND	ND	ND	ND	20.7	31.5	136	163
Dibenzo(a,h)anthracene	100	30000	ND	14.6	ND	ND	ND	ND	ND	**1160**	ND
Fluoranthene	2900000	1200000	59.3	19	22.5	ND	ND	21.4	34.3	131	440
Indeno(1,2,3-cd)pyrene	1500	28000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	40000	1700	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	2000000	250000	ND	ND	ND	ND	ND	ND	ND	106	247
Pyrene	2200000	880000	57.2	ND	55.7	18.8	10.3	128	44.2	289	237

TABLE 3-1

ANALYTICAL RESULTS FOR SURFACE SOIL
FIELD INVESTIGATIONS
NORTH-SOUTH HIGH SPEED REFUELERS
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE 1 / NOVEMBER 1999 CEF-NSH-										
	Residential Direct Exposure	Leachability to Groundwater	SS-010 0-1 ft	SS-011 0-1 ft	SS-012 0-1 ft	SS-013 0-1 ft	SS-014 0-1 ft	SU-001 5-6 ft	SU-002 5-6 ft	SU-003 5-6 ft	SU-004 5-6 ft	SU-005 5-6 ft	SU-006 5-6 ft
Polynuclear Aromatic Hydrocarbons (mg/kg)													
1-Methylnaphthalene	68000	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	80000	6100	ND	ND	ND	ND	168	ND	ND	ND	ND	ND	ND
Acenaphthene	1900000	2100	ND	ND	ND	141	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1100000	27000	ND	ND	ND	131	ND	ND	ND	ND	ND	ND	ND
Anthracene	18000000	2500000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1400	3200	19.8	41.3	41.2	145	214	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	100	8000	ND	69	74	**182**	**204**	ND	ND	13.4	ND	31.8	ND
Benzo(b)fluoranthene	1400	10000	ND	53.9	46.3	182	199	ND	22.9	ND	14.1	17.6	ND
Benzo(g,h,i)perylene	2300000	32000000	26.7	43	31.2	115	181	ND	12.9	ND	ND	ND	ND
Benzo(k)fluoranthene	15000	25000	ND	16.4	16.3	43.3	65.4	ND	ND	ND	ND	ND	ND
Chrysene	140000	77000	27.4	65.9	55.1	134	226	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	100	30000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	2900000	1200000	83.6	172	155	372	355	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1500	28000	ND	ND	ND	ND	112	ND	ND	ND	ND	ND	ND
Naphthalene	40000	1700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	2000000	250000	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND
Pyrene	2200000	880000	44.7	83.3	81.5	184	328	ND	ND	ND	ND	10.3	ND

TABLE 3-1

ANALYTICAL RESULTS FOR SURFACE SOIL
FIELD INVESTIGATIONS
NORTH-SOUTH HIGH SPEED REFUELERS
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE 1 / NOVEMBER 1999 CEF-NSH-								PHASE II / JANUARY 2000 CEF-NSH-		
	Residential Direct Exposure	Leachability to Groundwater	SU-007 6-7 ft	SU-008 6-7 ft	SU-009 6-7 ft	SU-010 6-7 ft	SU-011 6-7 ft	SU-012 6-7 ft	SU-013 6-7 ft	SU-014 6-7 ft	SS-101 0-1 ft	SS-102 (AVG) 0-1 ft	SS-105 0-1 ft
Polynuclear Aromatic Hydrocarbons (mg/kg)													
1-Methylnaphthalene	68000	2200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	80000	6100	ND	ND	ND	ND	ND	ND	ND	ND	ND	491	ND
Acenaphthene	1900000	2100	ND	890	ND	ND	ND	ND	ND	ND	111	368	ND
Acenaphthylene	1100000	27000	ND	629	ND	ND	ND	ND	ND	ND	ND	ND	166
Anthracene	18000000	2500000	ND	ND	ND	ND	ND	ND	ND	ND	ND	153	ND
Benzo(a)anthracene	1400	3200	ND	ND	ND	ND	ND	ND	ND	ND	362	923	216
Benzo(a)pyrene	100	8000	ND	38.7	ND	ND	18.7	ND	ND	ND	**346**	**719**	92.6
Benzo(b)fluoranthene	1400	10000	ND	106	ND	ND	ND	ND	ND	ND	422	**1057**	301
Benzo(g,h,i)perylene	2300000	32000000	ND	ND	ND	ND	11.2	14	19.5	ND	261	695	168
Benzo(k)fluoranthene	15000	25000	ND	ND	ND	ND	ND	ND	13.9	ND	189	481	140
Chrysene	140000	77000	ND	27.7	ND	ND	ND	ND	ND	ND	425	979	273
Dibenzo(a,h)anthracene	100	30000	ND	**6100**	ND	ND	ND	ND	ND	ND	69.1	**144**	15.3
Fluoranthene	2900000	1200000	ND	ND	ND	ND	ND	ND	21.2	ND	963	2965	500
Indeno(1,2,3-cd)pyrene	1500	28000	ND	ND	ND	ND	ND	ND	ND	ND	257	715	208
Naphthalene	40000	1700	ND	ND	ND	ND	ND	ND	ND	ND	ND	57	179
Phenanthrene	2000000	250000	ND	ND	ND	ND	ND	ND	ND	ND	281	798	218
Pyrene	2200000	880000	ND	ND	ND	ND	ND	ND	ND	ND	668	1955	419

TABLE 3-1

ANALYTICAL RESULTS FOR SURFACE SOIL
FIELD INVESTIGATIONS
NORTH-SOUTH HIGH SPEED REFUELERS
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE II / JANUARY 2000 CEF-NSH-									
	Residential Direct Exposure	Leachability to Groundwater	SS-106 0-1 ft	SS-107 0-1 ft	SS-108 0-1 ft	SS-109 0-1 ft	SS-110 1-2 ft	SS-111 0-1 ft	SS-112 0-1 ft	SS-113 1-2 ft	SU-103 6-7 ft	SU-104 (AVG) 6-7 ft
Polynuclear Aromatic Hydrocarbons (mg/kg)												
1-Methylnaphthalene	68000	2200	ND	ND	ND	218	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	80000	6100	ND	ND	ND	ND	129	ND	ND	ND	ND	ND
Acenaphthene	1900000	2100	ND	ND	ND	185	100	ND	ND	ND	ND	ND
Acenaphthylene	1100000	27000	ND	ND	ND	218	ND	ND	177	ND	ND	ND
Anthracene	18000000	2500000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1400	3200	18	25.5	ND	473	299	93.8	99.3	26.3	ND	ND
Benzo(a)pyrene	100	8000	ND	ND	ND	**229**	**244**	67	62.5	24.3	ND	ND
Benzo(b)fluoranthene	1400	10000	16.4	35.7	ND	497	375	147	139	32.4	ND	ND
Benzo(g,h,i)perylene	2300000	32000000	13.8	22.1	ND	258	191	132	104	33.7	ND	47.3
Benzo(k)fluoranthene	15000	25000	ND	19.8	ND	247	154	70.4	70.6	18.2	ND	ND
Chrysene	140000	77000	19.7	38.1	ND	558	382	107	135	26	ND	ND
Dibenzo(a,h)anthracene	100	30000	ND	ND	ND	28	17.2	ND	13.9	ND	ND	ND
Fluoranthene	2900000	1200000	77.6	42.2	ND	964	652	158	186	33.5	ND	ND
Indeno(1,2,3-cd)pyrene	1500	28000	13	24.4	ND	338	206	149	94.1	44.8	ND	ND
Naphthalene	40000	1700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	2000000	250000	ND	ND	ND	298	154	ND	ND	ND	ND	ND
Pyrene	2200000	880000	21.8	48.9	ND	978	530	145	169	35.7	ND	ND

TABLE 3-1

ANALYTICAL RESULTS FOR SURFACE SOIL
FIELD INVESTIGATIONS
NORTH-SOUTH HIGH SPEED REFUELERS
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE III / MARCH 2000 CEF-NSH-						
	Residential Direct Exposure	Leachability to Groundwater	SS-201 0-1 ft	SS-202 0-1 ft	SS-203 0-1 ft	SS-204 (AVG) 0-1 ft	SS-205 0-1 ft	SU-206 3-4 ft	SS-203 0-1 ft
Polynuclear Aromatic Hydrocarbons (mg/kg)									
1-Methylnaphthalene	68000	2200	ND	ND	ND	180	ND	ND	ND
2-Methylnaphthalene	80000	6100	ND	ND	ND	195	ND	ND	ND
Acenaphthene	1900000	2100	ND	ND	ND	189	ND	ND	ND
Acenaphthylene	1100000	27000	ND	ND	ND	310	250	ND	ND
Anthracene	18000000	2500000	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	1400	3200	88.8	166	ND	492	168	ND	ND
Benzo(a)pyrene	100	8000	ND	81	ND	**160**	54	ND	ND
Benzo(b)fluoranthene	1400	10000	128	213	ND	521	226	ND	ND
Benzo(g,h,i)perylene	2300000	32000000	96.6	140	ND	308	146	135	ND
Benzo(k)fluoranthene	15000	25000	65.7	100	ND	254	109	ND	ND
Chrysene	140000	77000	136	221	ND	645	224	ND	ND
Dibenzo(a,h)anthracene	100	30000	ND	ND	ND	24	50.5	ND	ND
Fluoranthene	2900000	1200000	330	600	ND	1670	529	ND	ND
Indeno(1,2,3-cd)pyrene	1500	28000	130	141	ND	331	144	ND	ND
Naphthalene	40000	1700	ND	ND	ND	385	ND	ND	ND
Phenanthrene	2000000	250000	ND	ND	ND	785	ND	ND	ND
Pyrene	2200000	880000	203	357	ND	1276	386	36.1	ND

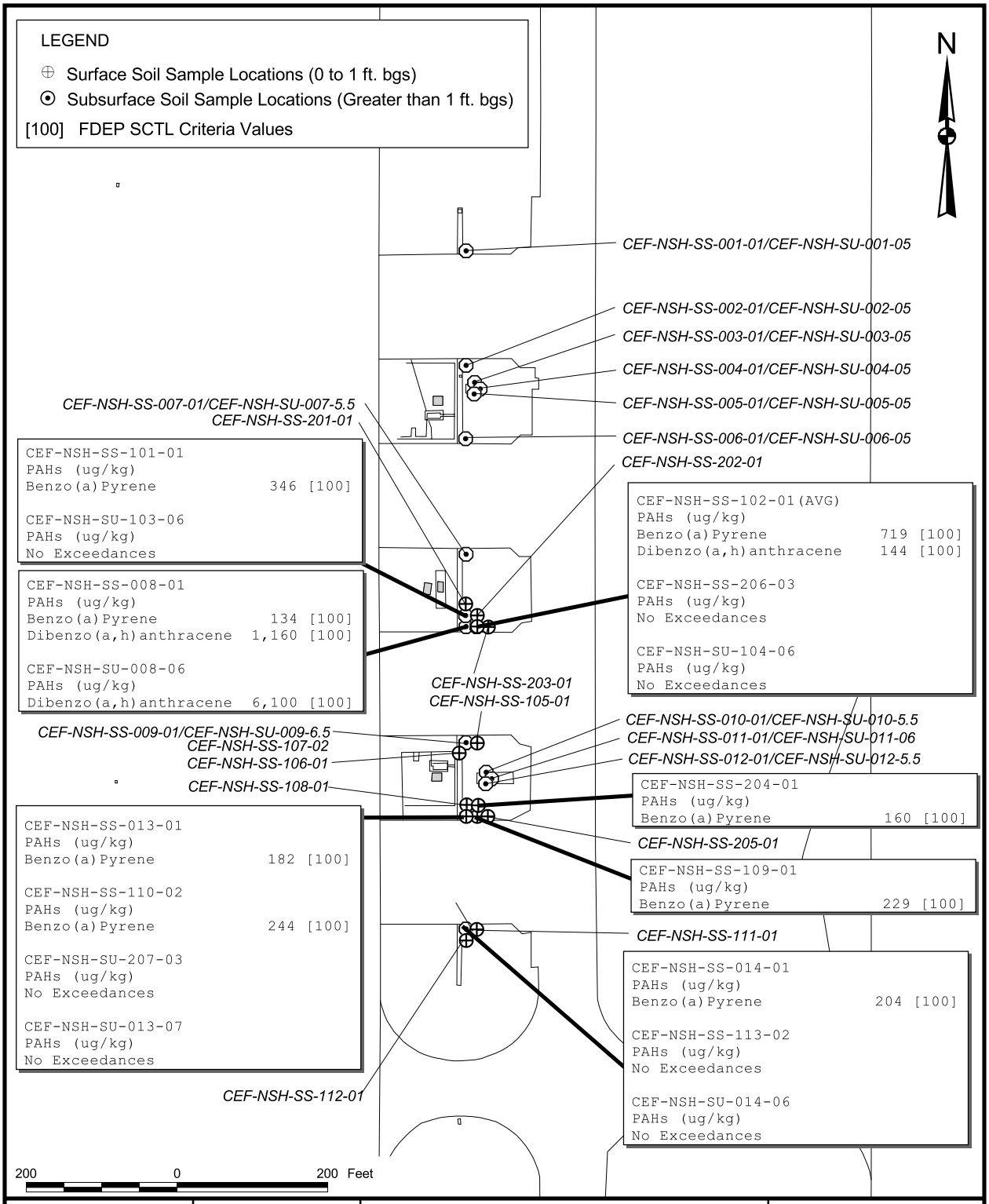
NOTES:
Highlighted values exceed FDEP SCTLs.
1. SCTL - Florida Soil Cleanup Target Level, FAC Chapter 62-777 (FDEP, 1999)
ND - Not detected

TABLE 3-2

ATTAINMENT OF SCTLs
PRE AND POST-EXCAVATION DATA ANALYSIS
NORTH-SOUTH HIGH SPEED REFUELERS
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

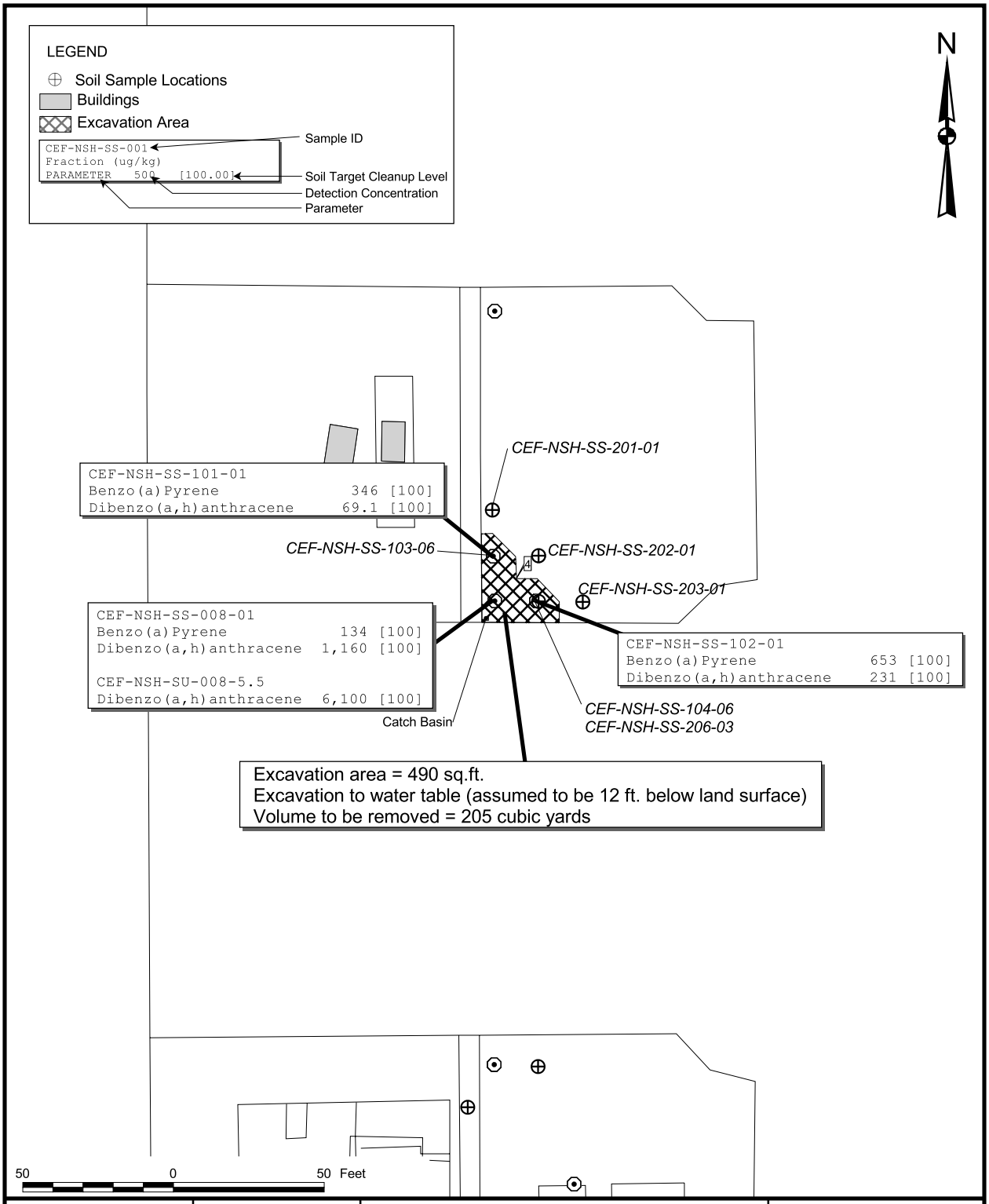
	Benzo(a)pyrene		**Dibenzo(a,h)anthracene**		**Benzo(a)pyrene Equivalents**	
	PreRemediation	Post-Remediation	PreRemediation	Post-Remediation	PreRemediation	Post-Remediation
Minimum Conc.	5	5	5	5	5	5
Maximum Conc.	719	292	6100	98.5	6150	391
Mean Conc.	72.9	48.15	165	23.15	256.8	87.6
St. Dev.	127.4	73.1	890.64	32.93	906.61	99.64
$UCL_{0.95}$	77.36	47.82	196.2	18.5	305.7	93.22
Goal	**100**		**100**		**100**	
Remediation Level	**11**		**98.5**		**147**	
SS-001-01	14.8	14.8	5.5	5.5	25.3	25.3
SS-002-01	69.3	69.3	14.6	14.6	86	86
SS-003-01	12.9	12.9	5	5	19.5	19.5
SS-004-01	5	5	5	5	5	5
SS-005-01	5	5	5	5	5	5
SS-006-01	22.2	22.2	5	5	31.8	31.8
SS-007-01	24.5	24.5	5	5	34.1	34.1
SS-008-01	**134**	**11**	**1160**	**98.5**	**1312**	**147**
SS-009-01	207	207	5.5	5.5	110	110
SS-010-01	5.5	5.5	5.5	5.5	14.2	14.2
SS-011-01	69	69	5	5	84.2	84.2
SS-012-01	74	74	5	5	88.5	88.5
SS-013-01	182	182	5.5	5.5	221	221
SS-014-01	204	204	5.5	5.5	263	263
SU-001-05	5.5	5.5	5.5	5.5	5.5	5.5
SU-002-05	5.5	5.5	5.5	5.5	14.5	14.5
SU-003-05	13.4	13.4	5.5	5.5	20.6	20.6
SU-004-05	5.5	5.5	5.5	5.5	13.6	13.6
SU-005-05	31.8	31.8	5.5	5.5	40.2	40.2
SU-006-05	5.5	5.5	5.5	5.5	5.5	5.5
SU-007-06	6	6	6	6	6	6
SU-008-06	**38.7**	**11**	**6100**	**98.5**	**6150**	**147**
SU-009-07	6	6	6	6	6	6
SU-010-06	5.5	5.5	5.5	5.5	5.5	5.5
SU-011-06	18.7	18.7	5.5	5.5	25.9	25.9
SU-012-06	5.5	5.5	5.5	5.5	5.5	5.5
SU-013-07	6.5	6.5	6.5	6.5	15.1	15.1
SS-014-06	5.5	5.5	5.5	5.5	5.5	5.5
SS-101-01	**346**	**11**	**69.1**	**98.5**	**1138**	**147**
SS-102-01	**719**	**11**	**144**	**98.5**	**6**	**147**
SS-103-06	**6**	**11**	**6**	**98.5**	**6**	**147**
SS-104-06	**5.5**	**11**	**5.5**	**98.5**	**5.5**	**147**
SS-105-01	92.6	92.6	15.3	15.3	182	182
SS-106-01	5.5	5.5	5.5	5.5	15.8	15.8
SS-107-02	6	6	6	6	20.8	20.8
SS-108-01	5.5	5.5	5.5	5.5	5.5	5.5
SS-109-01	229	229	27.7	27.7	391	391
SS-110-02	244	244	17.2	17.2	351	351
SS-111-01	67	67	6	6	113	113
SS-112-01	62.5	62.5	13.9	13.9	110	110
SS-113-02	24.3	24.3	6	6	40.9	40.9
SS-201-01	27	27	27	27	89.5	89.5
SS-202-01	81.1	81.1	15.5	15.5	150	150
SS-203-01	13	13	13	13	13	13
SS-204-01	292	292	47.5	47.5	363	363
SS-205-01	54	54	50.5	50.5	160	160
SU-206-03	**16**	**11**	**16**	**98.5**	**16**	**147**
SU-207-03	14.5	14.5	14.5	14.5	14.5	14.5

NOTES:
Bolded samples were excated to the remediation level.



DRAWN BY	DATE			CONTRACT NUMBER
MJJ	12Feb01	SURFACE AND SUBSURFACE SOIL SAMPLE EXCEEDANCES		0039
CHECKED BY	DATE	NORTH-SOUTH HIGH SPEED REFUELERS	APPROVED BY	DATE
		NAVAL AIR STATION CECIL FIELD	GND	6-14-01
COST/SCHEDULE-AREA		JACKSONVILLE, FLORIDA	APPROVED BY	DATE
SCALE			DRAWING NO.	REV
AS NOTED			FIGURE 3-1	1

P:\GIS\NAS_CecilField\NSHSR-TechMemo.apr 18Mar01 MJJ 3-1_All Phases Layout



DRAWN BY MJJ	DATE 12Feb01	REMEDIAL SOIL EXCAVATION NORTH-SOUTH HIGH SPEED REFUELERS NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY	DATE		APPROVED BY GND / DATE 6-14-01
COST/SCHEDULE-AREA			APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 3-2 / REV 1

P:\GIS\NAS_CecilField\NSHSR-TechMemo.apr 05Apr01 MJJ 3-4_Excavation Layout

4.0 CONCLUSIONS AND RECOMMENDATIONS

Field investigations determined that PAH contamination was present at the NSHSR, and a removal action was performed on August 24, 2000 to excavate and dispose off site the soil contaminated above residential SCTLs. Since the removal action, the soil at NSHSR no longer represents a threat to human health or the environment.

Based upon these conclusions, the recommendation for NSHSR is No Further Action. It is also recommended that the color-code for the NSHSR petroleum site be changed from Blue/Yellow to Blue/Dark Green to denote that releases of hazardous substances have occurred and that remedial actions to protect human health have been taken. Residual PAH concentrations in surface soil no longer represent a hazard to human health or the environment.

REFERENCES

CH2M Hill, 2001. Source Removal Report, Excavation of Petroleum-Contaminated Soil at North-South High Speed Refuelers. Prepared for SOUTHNAVFACENGCOM, Charleston, SC. NAS Cecil Field, Jacksonville, FL, January.

FDEP (Florida Department of Environmental Protection), 1999. Contaminant Target Rule, Soil, Groundwater, and Surface Water Target Cleanup Levels. Florida Administrative Code (FAC) 62-777, August.

HLA (Harding Lawson Associates), 1999. Main Base Area 18 Sampling and Analysis Outline and Report. NAS Cecil Field, Jacksonville, FL, 1999.

TtNUS, 1998. Base-Wide Generic Work Plan, NAS Cecil Field, Jacksonville, FL. Prepared for SOUTHNAVFACENGCOM, Charleston, SC, October.

TtNUS, 1999. Sampling and Analysis Work Plan (Phase I), North-South High Speed Refuelers, NAS Cecil Field, Jacksonville, FL. Prepared for SOUTHNAVFACENGCOM, Charleston, SC, November.

TtNUS, 2000a. Sampling and Analysis Work Plans (Phases II and III), North-South High Speed Refuelers, NAS Cecil Field. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, January, February.

TtNUS, 2000b. Dig and Haul Package for the North-South High-Speed Refuelers, NAS Cecil Field, Jacksonville, FL.

U.S. EPA Region IV, 1996. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual. Athens, GA, May.

U.S. EPA, 1998. Risk-Based Concentration Table. Region III. Philadelphia, PA.

APPENDIX A

MB-18 DPT GROUNDWATER DATA (HISTORICAL)

NAS CECIL FIELD
NORTH-SOUTH HIGH SPEED REFUELERS
MB18 DPT GROUNDWATER SAMPLES NEAR THE NSHSR

85Q01601
85Q01602

85Q02001
85Q02002

85Q02401
85Q02402

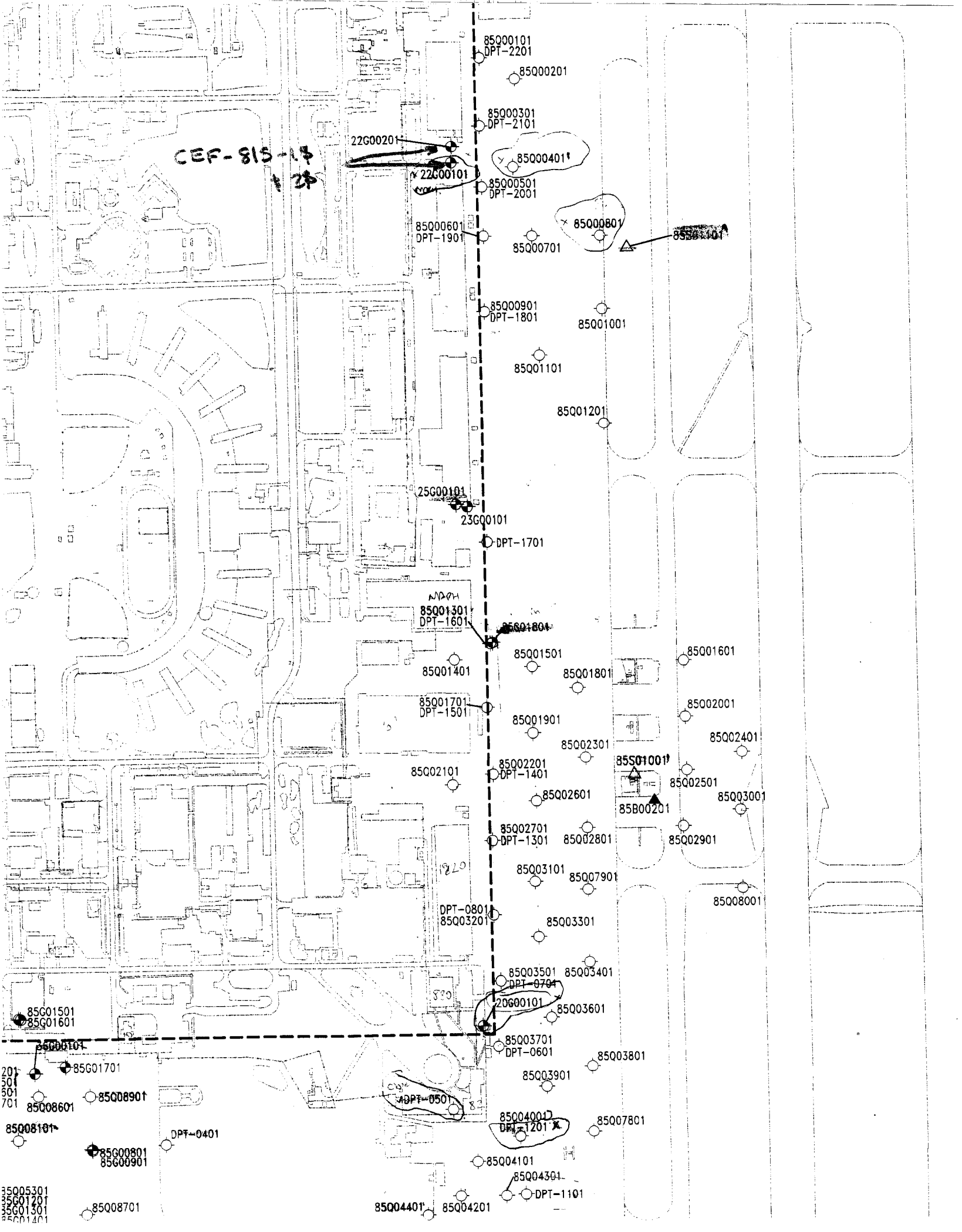
85Q02501
85Q02502

85Q02901
85Q02902

85Q03001
85Q03002

85Q08001
85Q08002

Notes:
"..01" samples are 15 feet bgs.
"..02" samples are 35 feet bgs.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DPT-2201
85Q00201
85Q00301
DPT-2101
22G00201
CEF-815-1.5
& 2P
85Q00401
22G00101
85Q00501
DPT-2001
85Q00601
DPT-1901
85Q00701
85Q00801
85B00401
85Q00901
DPT-1801
85Q01001
85Q01101
85Q01201
25G00101
23G00101
DPT-1701
85Q01301
DPT-1601
85Q01801
85Q01501
85Q01601
85Q01401
85Q01801
85Q01701
DPT-1501
85Q01901
85Q02001
85Q02301
85Q02401
85Q02201
DPT-1401
85Q01001
85Q02101
85Q02501
85Q02601
85Q03001
85B00201
85Q02701
DPT-1301
85Q02801
85Q02901
85Q03101
85Q07901
85Q08001
DPT-0801
85Q03201
85Q03301
85Q03501
DPT-0701
85Q03401
20G00101
85Q03601
85G01501
85G01601
85Q03701
DPT-0601
85Q03801
85G01701
85Q08901
85Q08601
85Q03901
DPT-0501
85Q08101
DPT-0401
85Q04001
DPT-1201
85Q07801
85G00801
85G00901
85Q04101
85Q04301
DPT-1101
85Q08701
85Q04401
85Q04201

Sample Identifier	85Q01302	85Q01501	85Q01502	85Q01601
Sample Collect Date	3/28/96	3/28/96	3/28/96	4/2/96
Analyte				
BRAC Semivolatiles				
1,2,4-Trichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,3-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,4-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Hexachlorobutadiene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
BRAC Volatiles				
1,1,1-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2,2-Tetrachloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloropropane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Benzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromodichloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromoform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromomethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Carbon tetrachloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
cis 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Dibromochloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Ethylbenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Methylene chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Tetrachloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Toluene	1.2 ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q01302	85Q01501	85Q01502	85Q01601
Sample Collect Date	3/28/96	3/28/96	3/28/96	4/2/96
Analyte				
trans 1,2-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
trans 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Trichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Vinyl chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
PAHs				
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q01602	85Q01701	85Q01702	85Q01801
Sample Collect Date	4/2/96	3/28/96	3/28/96	3/31/96
Analyte				
BRAC Semivolatiles				
1,2,4-Trichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,3-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,4-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Hexachlorobutadiene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
BRAC Volatiles				
1,1,1-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2,2-Tetrachloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloropropane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Benzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromodichloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromoform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromomethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Carbon tetrachloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
cis 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Dibromochloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Ethylbenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Methylene chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Tetrachloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Toluene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q01602	85Q01701	85Q01702	85Q01801
Sample Collect Date	4/2/96	3/28/96	3/28/96	3/31/96
Analyte				
trans 1,2-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
trans 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Trichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Vinyl chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
PAHs				
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q01802	85Q01901	85Q01902	85Q02001
Sample Collect Date	3/31/96	3/31/96	3/31/96	4/2/96
Analyte				
BRAC Semivolatiles				
1,2,4-Trichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,3-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,4-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Hexachlorobutadiene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
BRAC Volatiles				
1,1,1-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2,2-Tetrachloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloropropane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Benzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromodichloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromoform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromomethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Carbon tetrachloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
cis 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Dibromochloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Ethylbenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Methylene chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Tetrachloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Toluene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q01802	85Q01901	85Q01902	85Q02001
Sample Collect Date	3/31/96	3/31/96	3/31/96	4/2/96
Analyte				
trans 1,2-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
trans 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Trichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Vinyl chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
PAHs				
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q02002	85Q02101	85Q02102	85Q02201
Sample Collect Date	4/2/96	3/29/96	3/29/96	3/29/96
Analyte				
BRAC Semivolatiles				
1,2,4-Trichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	2.3 ug/l (1.)
1,2-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,3-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,4-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Hexachlorobutadiene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
BRAC Volatiles				
1,1,1-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2,2-Tetrachloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloropropane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Benzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromodichloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromoform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromomethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Carbon tetrachloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
cis 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Dibromochloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Ethylbenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Methylene chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Tetrachloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Toluene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q02002	85Q02101	85Q02102	85Q02201
Sample Collect Date	4/2/96	3/29/96	3/29/96	3/29/96
Analyte				
trans 1,2-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
trans 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Trichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Vinyl chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
PAHs				
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q02202	85Q02301	85Q02302	85Q02401
Sample Collect Date	3/29/96	3/31/96	3/31/96	4/3/96
Analyte				
BRAC Semivolatiles				
1,2,4-Trichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,3-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,4-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Hexachlorobutadiene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
BRAC Volatiles				
1,1,1-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2,2-Tetrachloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloropropane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Benzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromodichloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromoform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromomethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Carbon tetrachloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
cis 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Dibromochloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Ethylbenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Methylene chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Tetrachloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Toluene	1. U ug/l (1.)	1. U ug/l (1.)	1.9 ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q02202	85Q02301	85Q02302	85Q02401
Sample Collect Date	3/29/96	3/31/96	3/31/96	4/3/96
Analyte				
trans 1,2-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
trans 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Trichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Vinyl chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
PAHs				
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q02402	85Q02501	85Q02502	85Q02601
Sample Collect Date	4/3/96	4/3/96	4/3/96	3/31/96
Analyte				
BRAC Semivolatiles				
1,2,4-Trichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	12. ug/l (1.)
1,2-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,3-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,4-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Hexachlorobutadiene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
BRAC Volatiles				
1,1,1-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2,2-Tetrachloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloropropane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Benzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromodichloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromoform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromomethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Carbon tetrachloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
cis 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Dibromochloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Ethylbenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Methylene chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Tetrachloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Toluene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q02402	85Q02501	85Q02502	85Q02601
Sample Collect Date	4/3/96	4/3/96	4/3/96	3/31/96
Analyte				
trans 1,2-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
trans 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Trichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Vinyl chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
PAHs				
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q02802	85Q02901	85Q02902	85Q03001
Sample Collect Date	4/1/96	4/2/96	4/2/96	4/9/96
Analyte				
BRAC Semivolatiles				
1,2,4-Trichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,3-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,4-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Hexachlorobutadiene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
BRAC Volatiles				
1,1,1-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2,2-Tetrachloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloropropane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Benzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromodichloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromoform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromomethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Carbon tetrachloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
cis 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Dibromochloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Ethylbenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Methylene chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Tetrachloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Toluene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q02802	85Q02901	85Q02902	85Q03001
Sample Collect Date	4/1/96	4/2/96	4/2/96	4/9/96
Analyte				
trans 1,2-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
trans 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Trichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Vinyl chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
PAHs				
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q03002	85Q03101	85Q03102	85Q03201
Sample Collect Date	4/9/96	4/1/96	4/1/96	4/1/96
Analyte				
BRAC Semivolatiles				
1,2,4-Trichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,3-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,4-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Hexachlorobutadiene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
BRAC Volatiles				
1,1,1-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2,2-Tetrachloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloropropane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Benzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromodichloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromoform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromomethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Carbon tetrachloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
cis 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Dibromochloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Ethylbenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Methylene chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Tetrachloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Toluene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q03002	85Q03101	85Q03102	85Q03201
Sample Collect Date	4/9/96	4/1/96	4/1/96	4/1/96
Analyte				
trans 1,2-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
trans 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Trichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Vinyl chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
PAHs				
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q07802	85Q07901	85Q07902	85Q08001
Sample Collect Date	4/12/96	4/11/96	4/11/96	4/11/96
Analyte				
BRAC Semivolatiles				
1,2,4-Trichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,3-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,4-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Hexachlorobutadiene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
BRAC Volatiles				
1,1,1-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2,2-Tetrachloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloropropane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Benzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromodichloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromoform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromomethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Carbon tetrachloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
cis 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Dibromochloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Ethylbenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Methylene chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Tetrachloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Toluene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q07802	85Q07901	85Q07902	85Q08001
Sample Collect Date	4/12/96	4/11/96	4/11/96	4/11/96
Analyte				
trans 1,2-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
trans 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Trichloroethene	1. U ug/l (1.)	1.2 ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Vinyl chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
PAHs				
Naphthalene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)

Sample Identifier	85Q08002	85Q08101	85Q08102	85Q08103
Sample Collect Date	4/11/96	9/6/97	9/6/97	9/6/97
Analyte				
BRAC Semivolatiles				
1,2,4-Trichlorobenzene	1. U ug/l (1.)	--	--	--
1,2-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,3-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,4-Dichlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Hexachlorobutadiene	1. U ug/l (1.)	--	--	--
Naphthalene	1. U ug/l (1.)	--	--	--
BRAC Volatiles				
1,1,1-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2,2-Tetrachloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1,2-Trichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,1-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	5. ug/l ()	5. ug/l ()
1,1-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloroethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
1,2-Dichloropropane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Benzene	1. U ug/l (1.)	3100. ug/l ()	520. ug/l ()	110. ug/l ()
Bromodichloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromoform	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Bromomethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Carbon tetrachloride	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	2. ug/l ()
Chlorobenzene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Chloroethane	1. U ug/l (1.)	1. U ug/l (1.)	2. U ug/l (2.)	2. U ug/l (2.)
Chloroform	1. U ug/l (1.)	2. U ug/l (2.)	1. U ug/l (1.)	18. ug/l ()
Chloromethane	1. U ug/l (1.)	1. U ug/l (1.)	2. U ug/l (2.)	2. U ug/l (2.)
cis 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Dibromochloromethane	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Ethylbenzene	1. U ug/l (1.)	1100. ug/l ()	500. ug/l ()	30. ug/l ()
m,p-Xylene	--	3600. ug/l ()	1300. ug/l ()	350. ug/l ()
Methylene chloride	1. U ug/l (1.)	2. U ug/l (2.)	2. U ug/l (2.)	2. U ug/l (2.)
o-Xylene	--	72. ug/l ()	550. ug/l ()	180. ug/l ()

Sample Identifier	85Q08002	85Q08101	85Q08102	85Q08103
Sample Collect Date	4/11/96	9/6/97	9/6/97	9/6/97
Analyte				
Tetrachloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Toluene	1. U ug/l (1.)	4300. ug/l ()	85. ug/l ()	8. ug/l ()
trans 1,2-Dichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
trans 1,3-Dichloropropene	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)	1. U ug/l (1.)
Trichloroethene	1. U ug/l (1.)	1. U ug/l (1.)	6. ug/l ()	1. I ug/l ()
Vinyl chloride	1. U ug/l (1.)	1. U ug/l (1.)	1. I ug/l ()	1. U ug/l (1.)
PAHs				
Naphthalene	1. U ug/l (1.)	--	--	--

APPENDIX B

ABB-ES/HLA LABORATORY ANALYTICAL DATA

PHASE I ANALYTICAL RESULTS

Tetra Tech NUS

INTERNAL CORRESPONDENCE

PITT-01-0-013

TO: MARK SPERANZA

DATE: FEBRUARY 9, 2000

FROM: JUSTIN ORBICH

CC: DV FILE

SUBJECT: ORGANIC DATA VALIDATION – VOA/PAH/TPH
CTO 078 – NAS CECIL FIELD
SDG F5295

SAMPLES: 11/Soil

CEF-NSH-SS-001-01	CEF-NSH-SS-002-01
CEF-NSH-SS-003-01	CEF-NSH-SS-004-01
CEF-NSH-SS-005-01	CEF-NSH-SS-006-01
CEF-NSH-SS-007-01	CEF-NSH-SS-008-01
CEF-NSH-SS-013-01	CEF-NSH-SS-014-01
CEF-NSH-SS-014-06	

OVERVIEW

The sample set for CTO 078, SDG F5295 Naval Air Station (NAS) Cecil Field; Florida consists of eleven (11) soil environmental samples. The samples were analyzed for Target Compound List (TCL) volatile plus methyl tert-butyl ether (MTBE), Polynuclear Aromatic Hydrocarbon (PAH), and Total Petroleum Hydrocarbon (TPH) organic compounds. No field duplicate pairs were included within this SDG.

The samples were collected by Tetra Tech, NUS on and November 15th, 1999 and analyzed by Accutest Laboratories. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW 846 Method 8260B, 8310, and FLORIDA-PRO analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

* • Data Completeness
* • Holding Times
* • Initial/continuing calibrations
* • Laboratory method/field quality control blank results
* • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified analytical results are presented in Appendix A.

VOLATILE FRACTION

All quality control parameters were met for this fraction.

PAH FRACTION

All quality control parameters were met for this fraction.

TPH FRACTION

All quality control parameters were met for this fraction.

ADDITIONAL COMMENTS

Positive results reported below the CRQL are qualified as estimated (J).

EXECUTIVE SUMMARY

Laboratory performance: None.

Other Factors Affecting Data Quality: None.

MEMO TO: **MR. M. SPERANZA**
DATE: **FEBRUARY 9, 2000 – PAGE 3**

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (February, 1994), and the NFESC "Navy Installation Restoration Program Laboratory Quality Assurance Guide" (February, 1996). The text of this report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Justin Orbich

Chemist/Data Validator
Tetra Tech, NUS

Joseph A. Samchuck

Data Validation Quality Assurance Officer
Tetra Tech, NUS

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCB D% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = % Solid content is less than 30%

DATA QUALIFIER DEFINITIONS:

U - Value is a nondetected result as reported by the laboratory and should not be considered present.

J - Positive result is estimated as a result of a value below the CRQL or a technical noncompliance.

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5295

SAMPLE NUMBER:	CEF-NSH-SS-001-01			CEF-NSH-SS-002-01			CEF-NSH-SS-003-01			CEF-NSH-SS-004-01		
SAMPLE DATE:	11/15/99			11/15/99			11/15/99			11/15/99		
LABORATORY ID:	F5295-1			F5295-2			F5295-3			F5295-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	92.8 %			94.9 %			93.7 %			94.2 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2.3	U		2.2	U		2.3	U		2.3	U	
1,1,2,2-TETRACHLOROETHANE	2.3	U		2.2	U		2.3	U		2.3	U	
1,1,2-TRICHLOROETHANE	2.3	U		2.2	U		2.3	U		2.3	U	
1,1-DICHLOROETHANE	2.3	U		2.2	U		2.3	U		2.3	U	
1,1-DICHLOROETHENE	2.3	U		2.2	U		2.3	U		2.3	U	
1,2-DICHLOROETHANE	2.3	U		2.2	U		2.3	U		2.3	U	
1,2-DICHLOROPROPANE	2.3	U		2.2	U		2.3	U		2.3	U	
2-BUTANONE	12	U		11	U		11	U		11	U	
2-HEXANONE	12	U		11	U		11	U		11	U	
4-METHYL-2-PENTANONE	12	U		11	U		11	U		11	U	
ACETONE	58	U		56	U		57	U		57	U	
BENZENE	2.3	U		2.2	U		2.3	U		2.3	U	
BROMODICHLOROMETHANE	2.3	U		2.2	U		2.3	U		2.3	U	
BROMOFORM	2.3	U		2.2	U		2.3	U		2.3	U	
BROMOMETHANE	5.8	U		5.6	U		5.7	U		5.7	U	
CARBON DISULFIDE	12	U		11	U		11	U		11	U	
CARBON TETRACHLORIDE	2.3	U		2.2	U		2.3	U		2.3	U	
CHLOROBENZENE	2.3	U		2.2	U		2.3	U		2.3	U	
CHLOROETHANE	5.8	U		5.6	U		5.7	U		5.7	U	
CHLOROFORM	2.3	U		2.2	U		2.3	U		2.3	U	
CHLOROMETHANE	5.8	U		5.6	U		5.7	U		5.7	U	
CIS-1,2-DICHLOROETHENE	2.3	U		2.2	U		2.3	U		2.3	U	
CIS-1,3-DICHLOROPROPENE	2.3	U		2.2	U		2.3	U		2.3	U	
DIBROMOCHLOROMETHANE	2.3	U		2.2	U		2.3	U		2.3	U	
ETHYLBENZENE	2.3	U		2.2	U		2.3	U		2.3	U	
METHYL TERT-BUTYL ETHER	2.3	U		2.2	U		2.3	U		2.3	U	
METHYLENE CHLORIDE	12	U		11	U		11	U		11	U	
STYRENE	2.3	U		2.2	U		2.3	U		2.3	U	
TETRACHLOROETHENE	2.3	U		2.2	U		2.3	U		2.3	U	
TOLUENE	2.3	U		2.2	U		2.3	U		2.3	U	
TRANS-1,2-DICHLOROETHENE	2.3	U		2.2	U		2.3	U		2.3	U	
TRANS-1,3-DICHLOROPROPENE	2.3	U		2.2	U		2.3	U		2.3	U	
TRICHLOROETHENE	2.3	U		2.2	U		2.3	U		2.3	U	
VINYL CHLORIDE	5.8	U		5.6	U		5.7	U		5.7	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5295

SAMPLE NUMBER:	CEF-NSH-SS-001-01			CEF-NSH-SS-002-01			CEF-NSH-SS-003-01			CEF-NSH-SS-004-01		
SAMPLE DATE:	11/15/99			11/15/99			11/15/99			11/15/99		
LABORATORY ID:	F5295-1			F5295-2			F5295-3			F5295-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	92.8 %			94.9 %			93.7 %			94.2 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
XYLENES, TOTAL	7	U		6.7	U		6.8	U		6.8	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5295

SAMPLE NUMBER:	CEF-NSH-SS-001-01			CEF-NSH-SS-002-01			CEF-NSH-SS-003-01			CEF-NSH-SS-004-01		
SAMPLE DATE:	11/15/99			11/15/99			11/15/99			11/15/99		
LABORATORY ID:	F5295-1			F5295-2			F5295-3			F5295-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	92.8 %			94.9 %			93.7 %			94.2 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
POLYNUCLEAR AROMATIC HYDROCARBONS	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1-METHYLNAPHTHALENE	71	U		69	U		70	U		70	U	
2-METHYLNAPHTHALENE	71	U		69	U		70	U		70	U	
ACENAPHTHENE	71	U		69	U		70	U		70	U	
ACENAPHTHYLENE	71	U		69	U		70	U		70	U	
ANTHRACENE	71	U		69	U		70	U		70	U	
BENZO(A)ANTHRACENE	20.8			10	U		10	U		10	U	
BENZO(A)PYRENE	14.8			69.3			12.9			10	U	
BENZO(B)FLUORANTHENE	22.5			10			10	U		10	U	
BENZO(G,H,I)PERYLENE	31			25.9			22.8			13.6		
BENZO(K)FLUORANTHENE	11.4			10.4			11.4			10	U	
CHRYSENE	30.4			10	U		10	U		10	U	
DIBENZO(A,H)ANTHRACENE	11	U		14.6			10	U		10	U	
FLUORANTHENE	59.3			19			22.5			10	U	
FLUORENE	71	U		69	U		70	U		70	U	
INDENO(1,2,3-CD)PYRENE	11	U		10	U		10	U		10	U	
NAPHTHALENE	71	U		69	U		70	U		70	U	
PHENANTHRENE	71	U		69	U		70	U		70	U	
PYRENE	57.2			10	U		55.7			18.8		

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5295

SAMPLE NUMBER:	CEF-NSH-SS-001-01			CEF-NSH-SS-002-01			CEF-NSH-SS-003-01			CEF-NSH-SS-004-01		
SAMPLE DATE:	11/15/99			11/15/99			11/15/99			11/15/99		
LABORATORY ID:	F5295-1			F5295-2			F5295-3			F5295-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	92.8 %			94.9 %			93.7 %			94.2 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	89	U		88	U		89	U		88	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5295

SAMPLE NUMBER:	CEF-NSH-SS-005-01			CEF-NSH-SS-006-01			CEF-NSH-SS-007-01			CEF-NSH-SS-008-01		
SAMPLE DATE:	11/15/99			11/15/99			11/15/99			11/15/99		
LABORATORY ID:	F5295-5			F5295-6			F5295-7			F5295-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	92.5 %			94.3 %			95.2 %			94.4 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
VOLATILES	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**	**RESULT**	**QUAL**	**CODE**
1,1,1-TRICHLOROETHANE	2.4	U		2.3	U		2.3	U		2.3	U	
1,1,2,2-TETRACHLOROETHANE	2.4	U		2.3	U		2.3	U		2.3	U	
1,1,2-TRICHLOROETHANE	2.4	U		2.3	U		2.3	U		2.3	U	
1,1-DICHLOROETHANE	2.4	U		2.3	U		2.3	U		2.3	U	
1,1-DICHLOROETHENE	2.4	U		2.3	U		2.3	U		2.3	U	
1,2-DICHLOROETHANE	2.4	U		2.3	U		2.3	U		2.3	U	
1,2-DICHLOROPROPANE	2.4	U		2.3	U		2.3	U		2.3	U	
2-BUTANONE	12	U		12	U		11	U		11	U	
2-HEXANONE	12	U		12	U		11	U		11	U	
4-METHYL-2-PENTANONE	12	U		12	U		11	U		11	U	
ACETONE	59	U		58	U		57	U		56	U	
BENZENE	2.4	U		2.3	U		2.3	U		2.3	U	
BROMODICHLOROMETHANE	2.4	U		2.3	U		2.3	U		2.3	U	
BROMOFORM	2.4	U		2.3	U		2.3	U		2.3	U	
BROMOMETHANE	5.9	U		5.8	U		5.7	U		5.6	U	
CARBON DISULFIDE	12	U		12	U		11	U		11	U	
CARBON TETRACHLORIDE	2.4	U		2.3	U		2.3	U		2.3	U	
CHLOROBENZENE	2.4	U		2.3	U		2.3	U		2.3	U	
CHLOROETHANE	5.9	U		5.8	U		5.7	U		5.6	U	
CHLOROFORM	2.4	U		2.3	U		2.3	U		2.3	U	
CHLOROMETHANE	5.9	U		5.8	U		5.7	U		5.6	U	
CIS-1,2-DICHLOROETHENE	2.4	U		2.3	U		2.3	U		2.3	U	
CIS-1,3-DICHLOROPROPENE	2.4	U		2.3	U		2.3	U		2.3	U	
DIBROMOCHLOROMETHANE	2.4	U		2.3	U		2.3	U		2.3	U	
ETHYLBENZENE	2.4	U		2.3	U		2.3	U		2.3	U	
METHYL TERT-BUTYL ETHER	2.4	U		2.3	U		2.3	U		2.3	U	
METHYLENE CHLORIDE	12	U		12	U		11	U		11	U	
STYRENE	2.4	U		2.3	U		2.3	U		2.3	U	
TETRACHLOROETHENE	2.4	U		2.3	U		2.3	U		2.3	U	
TOLUENE	2.4	U		2.3	U		2.3	U		2.3	U	
TRANS-1,2-DICHLOROETHENE	2.4	U		2.3	U		2.3	U		2.3	U	
TRANS-1,3-DICHLOROPROPENE	2.4	U		2.3	U		2.3	U		2.3	U	
TRICHLOROETHENE	2.4	U		2.3	U		2.3	U		2.3	U	
VINYL CHLORIDE	5.9	U		5.8	U		5.7	U		5.6	U	

CTO078-NAS CECIL FIELD
SOIL DATA
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SAMPLE NUMBER:	CEF-NSH-SS-005-01			CEF-NSH-SS-006-01			CEF-NSH-SS-007-01			CEF-NSH-SS-008-01		
SAMPLE DATE:	11/15/99			11/15/99			11/15/99			11/15/99		
LABORATORY ID:	F5295-5			F5295-6			F5295-7			F5295-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	92.5 %			94.3 %			95.2 %			94.4 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
XYLENES, TOTAL	7.1	U		7	U		6.8	U		6.8	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5295

SAMPLE NUMBER:	CEF-NSH-SS-005-01			CEF-NSH-SS-006-01			CEF-NSH-SS-007-01			CEF-NSH-SS-008-01		
SAMPLE DATE:	11/15/99			11/15/99			11/15/99			11/15/99		
LABORATORY ID:	F5295-5			F5295-6			F5295-7			F5295-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	92.5 %			94.3 %			95.2 %			94.4 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	71	U		69	U		69	U		70	U	
2-METHYLNAPHTHALENE	71	U		69	U		69	U		70	U	
ACENAPHTHENE	71	U		69	U		69	U		127		
ACENAPHTHYLENE	71	U		69	U		227			70	U	
ANTHRACENE	71	U		69	U		69	U		70	U	
BENZO(A)ANTHRACENE	10	U		22.3			19.7			86.6		
BENZO(A)PYRENE	10	U		22.2			24.5			134		
BENZO(B)FLUORANTHENE	10	U		17.1			19.9			81.1		
BENZO(G,H,I)PERYLENE	10	U		35.9			32.1			83.4		
BENZO(K)FLUORANTHENE	10	U		11.7			12.4			46.6		
CHRYSENE	10	U		20.7			31.5			136		
DIBENZO(A,H)ANTHRACENE	10	U		10	U		10	U		1160		
FLUORANTHENE	10	U		21.4			34.3			131		
FLUORENE	71	U		69	U		69	U		70	U	
INDENO(1,2,3-CD)PYRENE	10	U		10	U		10	U		10	U	
NAPHTHALENE	71	U		69	U		69	U		70	U	
PHENANTHRENE	71	U		69	U		69	U		106		
PYRENE	10.3			128			44.2			289		

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5295

SAMPLE NUMBER:	CEF-NSH-SS-005-01			CEF-NSH-SS-006-01			CEF-NSH-SS-007-01			CEF-NSH-SS-008-01		
SAMPLE DATE:	11/15/99			11/15/99			11/15/99			11/15/99		
LABORATORY ID:	F5295-5			F5295-6			F5295-7			F5295-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	92.5 %			94.3 %			95.2 %			94.4 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	90	U		88	U		88	U		93.7		

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5295

SAMPLE NUMBER:	CEF-NSH-SS-013-01			CEF-NSH-SS-014-01			CEF-NSH-SS-014-06					
SAMPLE DATE:	11/15/99			11/15/99			11/15/99			/ /		
LABORATORY ID:	F5295-9			F5295-10			F5295-11					
QC_TYPE:	NORMAL			NORMAL			NORMAL					
% SOLIDS:	92.9 %			92.8 %			86.4 %			100.0 %		
UNITS:	UG/KG			UG/KG			UG/KG					
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2.3	U		2.4	U		2.3	U				
1,1,2,2-TETRACHLOROETHANE	2.3	U		2.4	U		2.3	U				
1,1,2-TRICHLOROETHANE	2.3	U		2.4	U		2.3	U				
1,1-DICHLOROETHANE	2.3	U		2.4	U		2.3	U				
1,1-DICHLOROETHENE	2.3	U		2.4	U		2.3	U				
1,2-DICHLOROETHANE	2.3	U		2.4	U		2.3	U				
1,2-DICHLOROPROPANE	2.3	U		2.4	U		2.3	U				
2-BUTANONE	11	U		12	U		11	U				
2-HEXANONE	11	U		12	U		11	U				
4-METHYL-2-PENTANONE	11	U		12	U		11	U				
ACETONE	56	U		61	U		57	U				
BENZENE	2.3	U		2.4	U		2.3	U				
BROMODICHLOROMETHANE	2.3	U		2.4	U		2.3	U				
BROMOFORM	2.3	U		2.4	U		2.3	U				
BROMOMETHANE	5.6	U		6.1	U		5.7	U				
CARBON DISULFIDE	11	U		12	U		11	U				
CARBON TETRACHLORIDE	2.3	U		2.4	U		2.3	U				
CHLOROBENZENE	2.3	U		2.4	U		2.3	U				
CHLOROETHANE	5.6	U		6.1	U		5.7	U				
CHLOROFORM	2.3	U		2.4	U		2.3	U				
CHLOROMETHANE	5.6	U		6.1	U		5.7	U				
CIS-1,2-DICHLOROETHENE	2.3	U		2.4	U		2.3	U				
CIS-1,3-DICHLOROPROPENE	2.3	U		2.4	U		2.3	U				
DIBROMOCHLOROMETHANE	2.3	U		2.4	U		2.3	U				
ETHYLBENZENE	2.3	U		2.4	U		2.3	U				
METHYL TERT-BUTYL ETHER	2.3	U		2.4	U		2.3	U				
METHYLENE CHLORIDE	11	U		12	U		11	U				
STYRENE	2.3	U		2.4	U		2.3	U				
TETRACHLOROETHENE	2.3	U		2.4	U		2.3	U				
TOLUENE	2.3	U		2.4	U		2.3	U				
TRANS-1,2-DICHLOROETHENE	2.3	U		2.4	U		2.3	U				
TRANS-1,3-DICHLOROPROPENE	2.3	U		2.4	U		2.3	U				
TRICHLOROETHENE	2.3	U		2.4	U		2.3	U				
VINYL CHLORIDE	5.6	U		6.1	U		5.7	U				

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
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SAMPLE NUMBER:	CEF-NSH-SS-013-01			CEF-NSH-SS-014-01			CEF-NSH-SS-014-06					
SAMPLE DATE:	11/15/99			11/15/99			11/15/99			/ /		
LABORATORY ID:	F5295-9			F5295-10			F5295-11					
QC_TYPE:	NORMAL			NORMAL			NORMAL					
% SOLIDS:	92.9 %			92.8 %			86.4 %			100.0 %		
UNITS:	UG/KG			UG/KG			UG/KG					
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
XYLENES, TOTAL	6.8	U		7.3	U		6.8	U				

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5295

SAMPLE NUMBER:	CEF-NSH-SS-013-01	CEF-NSH-SS-014-01	CEF-NSH-SS-014-06	
SAMPLE DATE:	11/15/99	11/15/99	11/15/99	/ /
LABORATORY ID:	F5295-9	F5295-10	F5295-11	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	92.9 %	92.8 %	86.4 %	100.0 %
UNITS:	UG/KG	UG/KG	UG/KG	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	71	U		71	U		77	U				
2-METHYLNAPHTHALENE	71	U		168			77	U				
ACENAPHTHENE	141			71	U		77	U				
ACENAPHTHYLENE	131			71	U		77	U				
ANTHRACENE	71	U		71	U		77	U				
BENZO(A)ANTHRACENE	145			214			11	U				
BENZO(A)PYRENE	182			204			11	U				
BENZO(B)FLUORANTHENE	182			199			11	U				
BENZO(G,H,I)PERYLENE	115			181			11	U				
BENZO(K)FLUORANTHENE	43.4			65.4			11	U				
CHRYSENE	134			226			11	U				
DIBENZO(A,H)ANTHRACENE	11	U		11	U		11	U				
FLUORANTHENE	372			355			11	U				
FLUORENE	71	U		71	U		77	U				
INDENO(1,2,3-CD)PYRENE	11	U		112			11	U				
NAPHTHALENE	71	U		71	U		77	U				
PHENANTHRENE	71	U		71	U		77	U				
PYRENE	184			328			11	U				

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5295

SAMPLE NUMBER:	CEF-NSH-SS-013-01			CEF-NSH-SS-014-01			CEF-NSH-SS-014-06					
SAMPLE DATE:	11/15/99			11/15/99			11/15/99			/ /		
LABORATORY ID:	F5295-9			F5295-10			F5295-11					
QC_TYPE:	NORMAL			NORMAL			NORMAL					
% SOLIDS:	92.9 %			92.8 %			86.4 %			100.0 %		
UNITS:	MG/KG			MG/KG			MG/KG					
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	90	U		90	U		96	U				

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-001-01		
Lab Sample ID:	F5295-1	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	92.8
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005119.D	1	11/23/99	CJP	n/a	n/a	VH12
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	58	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	5.8	ug/kg	
74-87-3	Methyl chloride	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
100-42-5	Styrene	ND	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	2.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	7.0	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-001-01		
Lab Sample ID:	F5295-1	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	92.8
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		71-122%
2037-26-5	Toluene-D8	105%		73-128%
460-00-4	4-Bromofluorobenzene	110%		53-158%
17060-07-0	1,2-Dichloroethane-D4	115%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-001-01		
Lab Sample ID:	F5295-1		
Matrix:	SO - Soil	**Date Sampled:**	11/15/99
Method:	SW846 8310	**Date Received:**	11/16/99
Project:	NAS Cecil Field	**Percent Solids:**	92.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7259.D	1	12/05/99	AMA	11/27/99	M:OP1569	M:GLC69
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	71	ug/kg	
208-96-8	Acenaphthylene	ND	71	ug/kg	
120-12-7	Anthracene	ND	71	ug/kg	
56-55-3	Benzo (a) anthracene	20.8	11	ug/kg	
50-32-8	Benzo (a) pyrene	14.8	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	22.5	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	31.0	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	11.4	11	ug/kg	
218-01-9	Chrysene	30.4	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	59.3	11	ug/kg	
86-73-7	Fluorene	ND	71	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	71	ug/kg	
91-57-6	2-Methylnaphthalene	ND	71	ug/kg	
91-20-3	Naphthalene	ND	71	ug/kg	
85-01-8	Phenanthrene	ND	71	ug/kg	
129-00-0	Pyrene	57.2	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-001-01		
Lab Sample ID:	F5295-1	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	FLORIDA-PRO	**Percent Solids:**	92.8
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05828.D	1	11/19/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	89	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-002-01		
Lab Sample ID:	F5295-2	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	94.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005120.D	1	11/23/99	CJP	n/a	n/a	VH12
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	56	ug/kg	
71-43-2	Benzene	ND	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.6	ug/kg	
74-87-3	Methyl chloride	ND	5.6	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
100-42-5	Styrene	ND	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.2	ug/kg	
108-88-3	Toluene	ND	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	ug/kg	
1330-20-7	Xylene (total)	ND	6.7	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-002-01		
Lab Sample ID:	F5295-2	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	94.9
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	105%		53-158%
17060-07-0	1,2-Dichloroethane-D4	115%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-002-01		
Lab Sample ID:	F5295-2	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8310	**Percent Solids:**	94.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7261.D	1	12/05/99	AMA	11/27/99	M:OP1569	M:GLC69
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	69	ug/kg	
208-96-8	Acenaphthylene	ND	69	ug/kg	
120-12-7	Anthracene	ND	69	ug/kg	
56-55-3	Benzo (a) anthracene	ND	10	ug/kg	
50-32-8	Benzo (a) pyrene	69.3	10	ug/kg	
205-99-2	Benzo (b) fluoranthene	10.0	10	ug/kg	
191-24-2	Benzo (g,h,i) perylene	25.9	10	ug/kg	
207-08-9	Benzo (k) fluoranthene	10.4	10	ug/kg	
218-01-9	Chrysene	ND	10	ug/kg	
53-70-3	Dibenz(a,h)anthracene	14.6	10	ug/kg	
206-44-0	Fluoranthene	19.0	10	ug/kg	
86-73-7	Fluorene	ND	69	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	10	ug/kg	
90-12-0	1-Methylnaphthalene	ND	69	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	ug/kg	
91-20-3	Naphthalene	ND	69	ug/kg	
85-01-8	Phenanthrene	ND	69	ug/kg	
129-00-0	Pyrene	ND	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-002-01		
Lab Sample ID:	F5295-2	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	FLORIDA-PRO	**Percent Solids:**	94.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05829.D	1	11/19/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	88	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	107%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-003-01		
Lab Sample ID:	F5295-3	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	93.7
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005121.D	1	11/23/99	CJP	n/a	n/a	VH12
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	57	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.7	ug/kg	
74-87-3	Methyl chloride	ND	5.7	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
100-42-5	Styrene	ND	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	2.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.7	ug/kg	
1330-20-7	Xylene (total)	ND	6.8	ug/kg	

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-003-01		
Lab Sample ID:	F5295-3	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	93.7
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	111%		53-158%
17060-07-0	1,2-Dichloroethane-D4	114%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-003-01		
Lab Sample ID:	F5295-3	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8310	**Percent Solids:**	93.7
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7262.D	1	12/05/99	AMA	11/27/99	M:OP1569	M:GLC69
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	70	ug/kg	
208-96-8	Acenaphthylene	ND	70	ug/kg	
120-12-7	Anthracene	ND	70	ug/kg	
56-55-3	Benzo (a) anthracene	ND	10	ug/kg	
50-32-8	Benzo (a) pyrene	12.9	10	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	10	ug/kg	
191-24-2	Benzo (g,h,i) perylene	22.8	10	ug/kg	
207-08-9	Benzo (k) fluoranthene	11.4	10	ug/kg	
218-01-9	Chrysene	ND	10	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	10	ug/kg	
206-44-0	Fluoranthene	22.5	10	ug/kg	
86-73-7	Fluorene	ND	70	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	10	ug/kg	
90-12-0	1-Methylnaphthalene	ND	70	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	ug/kg	
91-20-3	Naphthalene	ND	70	ug/kg	
85-01-8	Phenanthrene	ND	70	ug/kg	
129-00-0	Pyrene	55.7	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-003-01		
Lab Sample ID:	F5295-3	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	FLORIDA-PRO	**Percent Solids:**	93.7
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05830.D	1	11/19/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	89	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-004-01		
Lab Sample ID:	F5295-4	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	94.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005122.D	1	11/23/99	CJP	n/a	n/a	VH12
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	57	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.7	ug/kg	
74-87-3	Methyl chloride	ND	5.7	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
100-42-5	Styrene	ND	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	2.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.7	ug/kg	
1330-20-7	Xylene (total)	ND	6.8	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-004-01		
Lab Sample ID:	F5295-4	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	94.2
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	110%		53-158%
17060-07-0	1,2-Dichloroethane-D4	115%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-004-01		
Lab Sample ID:	F5295-4	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8310	**Percent Solids:**	94.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7263.D	1	12/05/99	AMA	11/27/99	M:OP1569	M:GLC69
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	70	ug/kg	
208-96-8	Acenaphthylene	ND	70	ug/kg	
120-12-7	Anthracene	ND	70	ug/kg	
56-55-3	Benzo (a) anthracene	ND	10	ug/kg	
50-32-8	Benzo (a) pyrene	ND	10	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	10	ug/kg	
191-24-2	Benzo (g,h,i) perylene	13.6	10	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	10	ug/kg	
218-01-9	Chrysene	ND	10	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	10	ug/kg	
206-44-0	Fluoranthene	ND	10	ug/kg	
86-73-7	Fluorene	ND	70	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	10	ug/kg	
90-12-0	1-Methylnaphthalene	ND	70	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	ug/kg	
91-20-3	Naphthalene	ND	70	ug/kg	
85-01-8	Phenanthrene	ND	70	ug/kg	
129-00-0	Pyrene	18.8	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-004-01		
Lab Sample ID:	F5295-4	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	FLORIDA-PRO	**Percent Solids:**	94.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05831.D	1	11/19/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	88	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	106%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-005-01		
Lab Sample ID:	F5295-5	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	92.5
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005123.D	1	11/24/99	CJP	n/a	n/a	VH12
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	59	ug/kg	
71-43-2	Benzene	ND	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	ug/kg	
75-25-2	Bromoform	ND	2.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	ug/kg	
75-00-3	Chloroethane	ND	5.9	ug/kg	
67-66-3	Chloroform	ND	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	ug/kg	
100-41-4	Ethylbenzene	ND	2.4	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	5.9	ug/kg	
74-87-3	Methyl chloride	ND	5.9	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	ug/kg	
100-42-5	Styrene	ND	2.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.4	ug/kg	
108-88-3	Toluene	ND	2.4	ug/kg	
79-01-6	Trichloroethylene	ND	2.4	ug/kg	
75-01-4	Vinyl chloride	ND	5.9	ug/kg	
1330-20-7	Xylene (total)	ND	7.1	ug/kg	

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-005-01		
Lab Sample ID:	F5295-5	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	92.5
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		71-122%
2037-26-5	Toluene-D8	104%		73-128%
460-00-4	4-Bromofluorobenzene	109%		53-158%
17060-07-0	1,2-Dichloroethane-D4	116%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-005-01		
Lab Sample ID:	F5295-5	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8310	**Percent Solids:**	92.5
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7264.D	1	12/05/99	AMA	11/27/99	M:OP1569	M:GLC69
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	71	ug/kg	
208-96-8	Acenaphthylene	ND	71	ug/kg	
120-12-7	Anthracene	ND	71	ug/kg	
56-55-3	Benzo (a) anthracene	ND	10	ug/kg	
50-32-8	Benzo (a) pyrene	ND	10	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	10	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	10	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	10	ug/kg	
218-01-9	Chrysene	ND	10	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	10	ug/kg	
206-44-0	Fluoranthene	ND	10	ug/kg	
86-73-7	Fluorene	ND	71	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	10	ug/kg	
90-12-0	1-Methylnaphthalene	ND	71	ug/kg	
91-57-6	2-Methylnaphthalene	ND	71	ug/kg	
91-20-3	Naphthalene	ND	71	ug/kg	
85-01-8	Phenanthrene	ND	71	ug/kg	
129-00-0	Pyrene	10.3	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-005-01		
Lab Sample ID:	F5295-5	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	FLORIDA-PRO	**Percent Solids:**	92.5
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05832.D	1	11/19/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	90	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-006-01		
Lab Sample ID:	F5295-6	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	94.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005124.D	1	11/24/99	CJP	n/a	n/a	VH12
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	58	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	5.8	ug/kg	
74-87-3	Methyl chloride	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
100-42-5	Styrene	ND	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	2.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	7.0	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-006-01		
Lab Sample ID:	F5295-6	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	94.3
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	105%		53-158%
17060-07-0	1,2-Dichloroethane-D4	114%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-006-01		
Lab Sample ID:	F5295-6	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8310	**Percent Solids:**	94.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7265.D	1	12/06/99	AMA	11/27/99	M:OP1569	M:GLC69
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	69	ug/kg	
208-96-8	Acenaphthylene	ND	69	ug/kg	
120-12-7	Anthracene	ND	69	ug/kg	
56-55-3	Benzo (a) anthracene	22.3	10	ug/kg	
50-32-8	Benzo (a) pyrene	22.2	10	ug/kg	
205-99-2	Benzo (b) fluoranthene	17.1	10	ug/kg	
191-24-2	Benzo (g,h,i) perylene	35.9	10	ug/kg	
207-08-9	Benzo (k) fluoranthene	11.7	10	ug/kg	
218-01-9	Chrysene	20.7	10	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	10	ug/kg	
206-44-0	Fluoranthene	21.4	10	ug/kg	
86-73-7	Fluorene	ND	69	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	10	ug/kg	
90-12-0	1-Methylnaphthalene	ND	69	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	ug/kg	
91-20-3	Naphthalene	ND	69	ug/kg	
85-01-8	Phenanthrene	ND	69	ug/kg	
129-00-0	Pyrene	128	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-006-01		
Lab Sample ID:	F5295-6	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	FLORIDA-PRO	**Percent Solids:**	94.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05834.D	1	11/19/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	88	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-007-01		
Lab Sample ID:	F5295-7	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	95.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005125.D	1	11/24/99	CJP	n/a	n/a	VH12
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	57	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.7	ug/kg	
74-87-3	Methyl chloride	ND	5.7	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
100-42-5	Styrene	ND	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	2.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.7	ug/kg	
1330-20-7	Xylene (total)	ND	6.8	ug/kg	

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-007-01		
Lab Sample ID:	F5295-7	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	95.2
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	110%		53-158%
17060-07-0	1,2-Dichloroethane-D4	116%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-007-01		
Lab Sample ID:	F5295-7	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8310	**Percent Solids:**	95.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7266.D	1	12/06/99	AMA	11/27/99	M:OP1569	M:GLC69
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	69	ug/kg	
208-96-8	Acenaphthylene	227	69	ug/kg	
120-12-7	Anthracene	ND	69	ug/kg	
56-55-3	Benzo (a) anthracene	19.7	10	ug/kg	
50-32-8	Benzo (a) pyrene	24.5	10	ug/kg	
205-99-2	Benzo (b) fluoranthene	19.9	10	ug/kg	
191-24-2	Benzo (g,h,i) perylene	32.1	10	ug/kg	
207-08-9	Benzo (k) fluoranthene	12.4	10	ug/kg	
218-01-9	Chrysene	31.5	10	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	10	ug/kg	
206-44-0	Fluoranthene	34.3	10	ug/kg	
86-73-7	Fluorene	ND	69	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	10	ug/kg	
90-12-0	1-Methylnaphthalene	ND	69	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	ug/kg	
91-20-3	Naphthalene	ND	69	ug/kg	
85-01-8	Phenanthrene	ND	69	ug/kg	
129-00-0	Pyrene	44.2	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-007-01		
Lab Sample ID:	F5295-7	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	FLORIDA-PRO	**Percent Solids:**	95.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05837.D	1	11/19/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	88	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	102%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-008-01		
Lab Sample ID:	F5295-8	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	94.4
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005126.D	1	11/24/99	CJP	n/a	n/a	VH12
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	56	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.6	ug/kg	
74-87-3	Methyl chloride	ND	5.6	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
100-42-5	Styrene	ND	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	2.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	ug/kg	
1330-20-7	Xylene (total)	ND	6.8	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-008-01		
Lab Sample ID:	F5295-8	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	94.4
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		71-122%
2037-26-5	Toluene-D8	104%		73-128%
460-00-4	4-Bromofluorobenzene	115%		53-158%
17060-07-0	1,2-Dichloroethane-D4	118%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-008-01		
Lab Sample ID:	F5295-8	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8310	**Percent Solids:**	94.4
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7267.D	1	12/06/99	AMA	11/27/99	M:OP1569	M:GLC69
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	127	70	ug/kg	
208-96-8	Acenaphthylene	ND	70	ug/kg	
120-12-7	Anthracene	ND	70	ug/kg	
56-55-3	Benzo (a) anthracene	86.6	10	ug/kg	
50-32-8	Benzo (a) pyrene	134	10	ug/kg	
205-99-2	Benzo (b) fluoranthene	81.1	10	ug/kg	
191-24-2	Benzo (g,h,i) perylene	83.4	10	ug/kg	
207-08-9	Benzo (k) fluoranthene	46.6	10	ug/kg	
218-01-9	Chrysene	136	10	ug/kg	
53-70-3	Dibenz(a,h)anthracene	1160	10	ug/kg	
206-44-0	Fluoranthene	131	10	ug/kg	
86-73-7	Fluorene	ND	70	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	10	ug/kg	
90-12-0	1-Methylnaphthalene	ND	70	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	ug/kg	
91-20-3	Naphthalene	ND	70	ug/kg	
85-01-8	Phenanthrene	106	70	ug/kg	
129-00-0	Pyrene	289	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-008-01		
Lab Sample ID:	F5295-8	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	FLORIDA-PRO	**Percent Solids:**	94.4
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05857.D	1	11/22/99	ME	11/18/99	OP1093	GOP283
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	93.7	88	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-013-01		
Lab Sample ID:	F5295-9	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	92.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005127.D	1	11/24/99	CJP	n/a	n/a	VH12
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	56	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.6	ug/kg	
74-87-3	Methyl chloride	ND	5.6	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
100-42-5	Styrene	ND	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	2.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	ug/kg	
1330-20-7	Xylene (total)	ND	6.8	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-013-01		
Lab Sample ID:	F5295-9	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	92.9
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		71-122%
2037-26-5	Toluene-D8	105%		73-128%
460-00-4	4-Bromofluorobenzene	113%		53-158%
17060-07-0	1,2-Dichloroethane-D4	115%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-013-01		
Lab Sample ID:	F5295-9	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8310	**Percent Solids:**	92.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7268.D	1	12/06/99	AMA	11/27/99	M:OP1569	M:GLC69
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	141	71	ug/kg	
208-96-8	Acenaphthylene	131	71	ug/kg	
120-12-7	Anthracene	ND	71	ug/kg	
56-55-3	Benzo (a) anthracene	145	11	ug/kg	
50-32-8	Benzo (a) pyrene	182	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	182	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	115	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	43.4	11	ug/kg	
218-01-9	Chrysene	134	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	372	11	ug/kg	
86-73-7	Fluorene	ND	71	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	71	ug/kg	
91-57-6	2-Methylnaphthalene	ND	71	ug/kg	
91-20-3	Naphthalene	ND	71	ug/kg	
85-01-8	Phenanthrene	ND	71	ug/kg	
129-00-0	Pyrene	184	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-013-01		
Lab Sample ID:	F5295-9	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	FLORIDA-PRO	**Percent Solids:**	92.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05839.D	1	11/19/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	90	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000038

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-014-01		
Lab Sample ID:	F5295-10	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	92.8
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005128.D	1	11/24/99	CJP	n/a	n/a	VH12
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	61	ug/kg	
71-43-2	Benzene	ND	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	ug/kg	
75-25-2	Bromoform	ND	2.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	ug/kg	
75-00-3	Chloroethane	ND	6.1	ug/kg	
67-66-3	Chloroform	ND	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	ug/kg	
100-41-4	Ethylbenzene	ND	2.4	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	6.1	ug/kg	
74-87-3	Methyl chloride	ND	6.1	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	ug/kg	
100-42-5	Styrene	ND	2.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.4	ug/kg	
108-88-3	Toluene	ND	2.4	ug/kg	
79-01-6	Trichloroethylene	ND	2.4	ug/kg	
75-01-4	Vinyl chloride	ND	6.1	ug/kg	
1330-20-7	Xylene (total)	ND	7.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-014-01		
Lab Sample ID:	F5295-10	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	92.8
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		71-122%
2037-26-5	Toluene-D8	105%		73-128%
460-00-4	4-Bromofluorobenzene	120%		53-158%
17060-07-0	1,2-Dichloroethane-D4	118%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000041

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-014-01		
Lab Sample ID:	F5295-10	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8310	**Percent Solids:**	92.8
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7269.D	1	12/06/99	AMA	11/27/99	M:OP1569	M:GLC69
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	71	ug/kg	
208-96-8	Acenaphthylene	ND	71	ug/kg	
120-12-7	Anthracene	ND	71	ug/kg	
56-55-3	Benzo (a) anthracene	214	11	ug/kg	
50-32-8	Benzo (a) pyrene	204	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	199	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	181	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	65.4	11	ug/kg	
218-01-9	Chrysene	226	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	355	11	ug/kg	
86-73-7	Fluorene	ND	71	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	112	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	71	ug/kg	
91-57-6	2-Methylnaphthalene	168	71	ug/kg	
91-20-3	Naphthalene	ND	71	ug/kg	
85-01-8	Phenanthrene	ND	71	ug/kg	
129-00-0	Pyrene	328	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000043

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-014-01		
Lab Sample ID:	F5295-10	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	FLORIDA-PRO	**Percent Solids:**	92.8
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05840.D	1	11/19/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	90	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000042

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-014-06		
Lab Sample ID:	F5295-11	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	86.4
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005129.D	1	11/24/99	CJP	n/a	n/a	VH12
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	57	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.7	ug/kg	
74-87-3	Methyl chloride	ND	5.7	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
100-42-5	Styrene	ND	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	2.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.7	ug/kg	
1330-20-7	Xylene (total)	ND	6.8	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-014-06		
Lab Sample ID:	F5295-11	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8260B	**Percent Solids:**	86.4
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		71-122%
2037-26-5	Toluene-D8	103%		73-128%
460-00-4	4-Bromofluorobenzene	106%		53-158%
17060-07-0	1,2-Dichloroethane-D4	117%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-014-06		
Lab Sample ID:	F5295-11	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	SW846 8310	**Percent Solids:**	86.4
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7270.D	1	12/06/99	AMA	11/27/99	M:OP1569	M:GLC69
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	77	ug/kg	
208-96-8	Acenaphthylene	ND	77	ug/kg	
120-12-7	Anthracene	ND	77	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	77	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	77	ug/kg	
91-57-6	2-Methylnaphthalene	ND	77	ug/kg	
91-20-3	Naphthalene	ND	77	ug/kg	
85-01-8	Phenanthrene	ND	77	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	46%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

100047

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-014-06		
Lab Sample ID:	F5295-11	**Date Sampled:**	11/15/99
Matrix:	SO - Soil	**Date Received:**	11/16/99
Method:	FLORIDA-PRO	**Percent Solids:**	86.4
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05841.D	1	11/20/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	96	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000046

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

PITT-01-0-012

TO: **MARK SPERANZA** **DATE: FEBRAURY 3, 2000**

FROM: **JUSTIN ORBICH** **CC: DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA/PAH/TPH**
CTO 078 – NAS CECIL FIELD
SDG F5313

SAMPLES: 14/Soil

CEF-NSH-SU-001-05
CEF-NSH-SU-003-05
CEF-NSH-SU-005-05
CEF-NSH-SU-007-05.5
CEF-NSH-SU-009-06.5
CEF-NSH-SU-011-06.0
CEF-NSH-SU-013-07
CEF-NSH-SU-002-05
CEF-NSH-SU-004-05
CEF-NSH-SU-006-05
CEF-NSH-SU-008-05.5
CEF-NSH-SU-010-05.5
CEF-NSH-SU-012-05.5
CEF-NSH-SU-DUP02

OVERVIEW

The sample set for CTO 078, SDG F5313 Naval Air Station (NAS) Cecil Field; Florida consists of fourteen (14) soil environmental samples. The samples were analyzed for Target Compound List (TCL) volatile, Polynuclear Aromatic Hydrocarbon (PAH), and Total Petroleum Hydrocarbon (TPH) organic compounds. One (1) field duplicate pair (CEF-NSH-SU-001-05/CEF-NSH-SU-DUP02) was included within this SDG.

The samples were collected by Tetra Tech, NUS on and November 17th, 1999 and analyzed by Accutest Laboratories. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW 846 Method 8260B, 8310, and FLORIDA-PRO analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

* • Data Completeness
* • Holding Times
* • Initial/continuing calibrations
* • Laboratory method/field quality control blank results
* • Detection Limits
* • Field Duplicate Precision

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified analytical results are presented in Appendix A.

VOLATILE FRACTION

All quality control parameters were met for this fraction.

PAH FRACTION

All quality control parameters were met for this fraction.

TPH FRACTION

All quality control parameters were met for this fraction.

ADDITIONAL COMMENTS

Positive results reported below the CRQL are qualified as estimated (J).

EXECUTIVE SUMMARY

Laboratory performance: None.

Other Factors Affecting Data Quality: None.

MEMO TO: **MR. M. SPERANZA**
DATE: **FEBRAURY 3, 2000 – PAGE 3**

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (February, 1994), and the NFESC "Navy Installation Restoration Program Laboratory Quality Assurance Guide" (February, 1996). The text of this report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Justin Orbich

Chemist/Data Validator
Tetra Tech, NUS

Joseph A. Samchuck

Data Validation Quality Assurance Officer
Tetra Tech, NUS

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

DATA QUALIFIER DEFINITIONS:

U - Value is a nondetected result as reported by the laboratory and should not be considered present.

J - Positive result is estimated as a result of a value below the CRQL or a technical noncompliance.

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCB D% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = % Solid content is less than 30%

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-001-05			CEF-NSH-SU-002-05			CEF-NSH-SU-003-05			CEF-NSH-SU-004-05		
SAMPLE DATE:	11/17/99			11/17/99			11/17/99			11/17/99		
LABORATORY ID:	F5313-1			F5313-2			F5313-3			F5313-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	86.1 %			87.3 %			86.4 %			88.9 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2.4	U		2.4	U		2.2	U		2.2	U	
1,1,2,2-TETRACHLOROETHANE	2.4	U		2.4	U		2.2	U		2.2	U	
1,1,2-TRICHLOROETHANE	2.4	U		2.4	U		2.2	U		2.2	U	
1,1-DICHLOROETHANE	2.4	U		2.4	U		2.2	U		2.2	U	
1,1-DICHLOROETHENE	2.4	U		2.4	U		2.2	U		2.2	U	
1,2-DICHLOROETHANE	2.4	U		2.4	U		2.2	U		2.2	U	
1,2-DICHLOROPROPANE	2.4	U		2.4	U		2.2	U		2.2	U	
2-BUTANONE	12	U		12	U		11	U		11	U	
2-HEXANONE	12	U		12	U		11	U		11	U	
4-METHYL-2-PENTANONE	12	U		12	U		11	U		11	U	
ACETONE	61	U		60	U		54	U		54	U	
BENZENE	2.4	U		2.4	U		2.2	U		2.2	U	
BROMODICHLOROMETHANE	2.4	U		2.4	U		2.2	U		2.2	U	
BROMOFORM	2.4	U		2.4	U		2.2	U		2.2	U	
BROMOMETHANE	6.1	U		6	U		5.4	U		5.4	U	
CARBON DISULFIDE	12	U		12	U		11	U		11	U	
CARBON TETRACHLORIDE	2.4	U		2.4	U		2.2	U		2.2	U	
CHLOROBENZENE	2.4	U		2.4	U		2.2	U		2.2	U	
CHLOROETHANE	6.1	U		6	U		5.4	U		5.4	U	
CHLOROFORM	2.4	U		2.4	U		2.2	U		2.2	U	
CHLOROMETHANE	6.1	U		6	U		5.4	U		5.4	U	
CIS-1,2-DICHLOROETHENE	2.4	U		2.4	U		2.2	U		2.2	U	
CIS-1,3-DICHLOROPROPENE	2.4	U		2.4	U		2.2	U		2.2	U	
DIBROMOCHLOROMETHANE	2.4	U		2.4	U		2.2	U		2.2	U	
ETHYLBENZENE	2.4	U		2.4	U		2.2	U		2.2	U	
METHYL TERT-BUTYL ETHER	2.4	U		2.4	U		2.2	U		2.2	U	
METHYLENE CHLORIDE	12	U		12	U		11	U		11	U	
STYRENE	2.4	U		2.4	U		2.2	U		2.2	U	
TETRACHLOROETHENE	2.4	U		2.4	U		2.2	U		2.2	U	
TOLUENE	2.4	U		2.4	U		2.2	U		2.2	U	
TRANS-1,2-DICHLOROETHENE	2.4	U		2.4	U		2.2	U		2.2	U	
TRANS-1,3-DICHLOROPROPENE	2.4	U		2.4	U		2.2	U		2.2	U	
TRICHLOROETHENE	2.4	U		2.4	U		2.2	U		2.2	U	
VINYL CHLORIDE	6.1	U		6	U		5.4	U		5.4	U	

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-001-05			CEF-NSH-SU-002-05			CEF-NSH-SU-003-05			CEF-NSH-SU-004-05		
SAMPLE DATE:	11/17/99			11/17/99			11/17/99			11/17/99		
LABORATORY ID:	F5313-1			F5313-2			F5313-3			F5313-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	86.1 %			87.3 %			86.4 %			88.9 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
XYLENES, TOTAL	7.3	U		7.1	U		6.5	U		6.5	U	

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-001-05			CEF-NSH-SU-002-05			CEF-NSH-SU-003-05			CEF-NSH-SU-004-05		
SAMPLE DATE:	11/17/99			11/17/99			11/17/99			11/17/99		
LABORATORY ID:	F5313-1			F5313-2			F5313-3			F5313-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	86.1 %			87.3 %			86.4 %			88.9 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	74	U		73	U		76	U		73	U	
2-METHYLNAPHTHALENE	74	U		73	U		76	U		73	U	
ACENAPHTHENE	74	U		73	U		76	U		73	U	
ACENAPHTHYLENE	74	U		73	U		76	U		73	U	
ANTHRACENE	74	U		73	U		76	U		73	U	
BENZO(A)ANTHRACENE	11	U		11	U		11	U		11	U	
BENZO(A)PYRENE	11	U		11	U		13.4			11	U	
BENZO(B)FLUORANTHENE	11	U		22.9			11	U		14.1		
BENZO(G,H,I)PERYLENE	11	U		12.9			11	U		11	U	
BENZO(K)FLUORANTHENE	11	U		11	U		11	U		11	U	
CHRYSENE	11	U		11	U		11	U		11	U	
DIBENZO(A,H)ANTHRACENE	11	U		11	U		11	U		11	U	
FLUORANTHENE	11	U		11	U		11	U		11	U	
FLUORENE	74	U		73	U		76	U		73	U	
INDENO(1,2,3-CD)PYRENE	11	U		11	U		11	U		11	U	
NAPHTHALENE	74	U		73	U		76	U		73	U	
PHENANTHRENE	74	U		73	U		76	U		73	U	
PYRENE	11	U		11	U		11	U		11	U	

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-001-05	CEF-NSH-SU-002-05	CEF-NSH-SU-003-05	CEF-NSH-SU-004-05
SAMPLE DATE:	11/17/99	11/17/99	11/17/99	11/17/99
LABORATORY ID:	F5313-1	F5313-2	F5313-3	F5313-4
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	86.1 %	87.3 %	86.4 %	88.9 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	97	U		95	U		96	U		94	U	

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-005-05			CEF-NSH-SU-006-05			CEF-NSH-SU-007-05.5			CEF-NSH-SU-008-05.5		
SAMPLE DATE:	11/17/99			11/17/99			11/17/99			11/17/99		
LABORATORY ID:	F5313-5			F5313-6			F5313-7			F5313-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	87.9 %			84.7 %			80.2 %			87.7 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2.5	U		2.7	U		2.5	U		2.1	U	
1,1,2,2-TETRACHLOROETHANE	2.5	U		2.7	U		2.5	U		2.1	U	
1,1,2-TRICHLOROETHANE	2.5	U		2.7	U		2.5	U		2.1	U	
1,1-DICHLOROETHANE	2.5	U		2.7	U		2.5	U		2.1	U	
1,1-DICHLOROETHENE	2.5	U		2.7	U		2.5	U		2.1	U	
1,2-DICHLOROETHANE	2.5	U		2.7	U		2.5	U		2.1	U	
1,2-DICHLOROPROPANE	2.5	U		2.7	U		2.5	U		2.1	U	
2-BUTANONE	12	U		14	U		13	U		10	U	
2-HEXANONE	12	U		14	U		13	U		10	U	
4-METHYL-2-PENTANONE	12	U		14	U		13	U		10	U	
ACETONE	62	U		68	U		115			23.6	J	P
BENZENE	2.5	U		2.7	U		2.5	U		2.1	U	
BROMODICHLOROMETHANE	2.5	U		2.7	U		2.5	U		2.1	U	
BROMOFORM	2.5	U		2.7	U		2.5	U		2.1	U	
BROMOMETHANE	6.2	U		6.8	U		6.3	U		5.2	U	
CARBON DISULFIDE	12	U		14	U		13	U		10	U	
CARBON TETRACHLORIDE	2.5	U		2.7	U		2.5	U		2.1	U	
CHLOROBENZENE	2.5	U		2.7	U		2.5	U		2.1	U	
CHLOROETHANE	6.2	U		6.8	U		6.3	U		5.2	U	
CHLOROFORM	2.5	U		2.7	U		2.5	U		2.1	U	
CHLOROMETHANE	6.2	U		6.8	U		6.3	U		5.2	U	
CIS-1,2-DICHLOROETHENE	2.5	U		2.7	U		2.5	U		2.1	U	
CIS-1,3-DICHLOROPROPENE	2.5	U		2.7	U		2.5	U		2.1	U	
DIBROMOCHLOROMETHANE	2.5	U		2.7	U		2.5	U		2.1	U	
ETHYLBENZENE	2.5	U		2.7	U		2.5	U		2.1	U	
METHYL TERT-BUTYL ETHER	2.5	U		2.7	U		2.5	U		2.1	U	
METHYLENE CHLORIDE	12	U		14	U		13	U		10	U	
STYRENE	2.5	U		2.7	U		2.5	U		2.1	U	
TETRACHLOROETHENE	2.5	U		2.7	U		2.5	U		2.1	U	
TOLUENE	2.5	U		2.7	U		2.5	U		2.1	U	
TRANS-1,2-DICHLOROETHENE	2.5	U		2.7	U		2.5	U		2.1	U	
TRANS-1,3-DICHLOROPROPENE	2.5	U		2.7	U		2.5	U		2.1	U	
TRICHLOROETHENE	2.5	U		2.7	U		2.5	U		2.1	U	
VINYL CHLORIDE	6.2	U		6.8	U		6.3	U		5.2	U	

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-005-05			CEF-NSH-SU-006-05			CEF-NSH-SU-007-05.5			CEF-NSH-SU-008-05.5		
SAMPLE DATE:	11/17/99			11/17/99			11/17/99			11/17/99		
LABORATORY ID:	F5313-5			F5313-6			F5313-7			F5313-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	87.9 %			84.7 %			80.2 %			87.7 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
XYLENES, TOTAL	7.4	U		8.2	U		7.6	U		6.3	U	

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-005-05			CEF-NSH-SU-006-05			CEF-NSH-SU-007-05.5			CEF-NSH-SU-008-05.5		
SAMPLE DATE:	11/17/99			11/17/99			11/17/99			11/17/99		
LABORATORY ID:	F5313-5			F5313-6			F5313-7			F5313-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	87.9 %			84.7 %			80.2 %			87.7 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	72	U		76	U		81	U		75	U	
2-METHYLNAPHTHALENE	72	U		76	U		81	U		75	U	
ACENAPHTHENE	72	U		76	U		81	U		890		
ACENAPHTHYLENE	72	U		76	U		81	U		629		
ANTHRACENE	72	U		76	U		81	U		75	U	
BENZO(A)ANTHRACENE	11	U		11	U		12	U		11	U	
BENZO(A)PYRENE	31.8			11	U		12	U		38.7		
BENZO(B)FLUORANTHENE	17.6			11	U		12	U		106		
BENZO(G,H,I)PERYLENE	11	U		11	U		12	U		11	U	
BENZO(K)FLUORANTHENE	11	U		11	U		12	U		11	U	
CHRYSENE	11	U		11	U		12	U		27.7		
DIBENZO(A,H)ANTHRACENE	11	U		11	U		12	U		6100		
FLUORANTHENE	11	U		11	U		12	U		11	U	
FLUORENE	72	U		76	U		81	U		75	U	
INDENO(1,2,3-CD)PYRENE	11	U		11	U		12	U		11	U	
NAPHTHALENE	72	U		76	U		81	U		75	U	
PHENANTHRENE	72	U		76	U		81	U		75	U	
PYRENE	11	U		11	U		12	U		11	U	

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-005-05			CEF-NSH-SU-006-05			CEF-NSH-SU-007-05.5			CEF-NSH-SU-008-05.5		
SAMPLE DATE:	11/17/99			11/17/99			11/17/99			11/17/99		
LABORATORY ID:	F5313-5			F5313-6			F5313-7			F5313-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	87.9 %			84.7 %			80.2 %			87.7 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	95	U		98	U		100	U		87.4	J	P

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-009-06.5	CEF-NSH-SU-010-05.5	CEF-NSH-SU-011-06.0	CEF-NSH-SU-012-05.5
SAMPLE DATE:	11/17/99	11/17/99	11/17/99	11/17/99
LABORATORY ID:	F5313-9	F5313-10	F5313-11	F5313-12
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	83.0 %	90.1 %	86.3 %	89.5 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2.4	U		2.2	U		2.2	U		2.2	U	
1,1,2,2-TETRACHLOROETHANE	2.4	U		2.2	U		2.2	U		2.2	U	
1,1,2-TRICHLOROETHANE	2.4	U		2.2	U		2.2	U		2.2	U	
1,1-DICHLOROETHANE	2.4	U		2.2	U		2.2	U		2.2	U	
1,1-DICHLOROETHENE	2.4	U		2.2	U		2.2	U		2.2	U	
1,2-DICHLOROETHANE	2.4	U		2.2	U		2.2	U		2.2	U	
1,2-DICHLOROPROPANE	2.4	U		2.2	U		2.2	U		2.2	U	
2-BUTANONE	12	U		11	U		11	U		11	U	
2-HEXANONE	12	U		11	U		11	U		11	U	
4-METHYL-2-PENTANONE	12	U		11	U		11	U		11	U	
ACETONE	60	U		55	U		40	J	P	54	U	
BENZENE	2.4	U		2.2	U		2.2	U		2.2	U	
BROMODICHLOROMETHANE	2.4	U		2.2	U		2.2	U		2.2	U	
BROMOFORM	2.4	U		2.2	U		2.2	U		2.2	U	
BROMOMETHANE	6	U		5.5	U		5.4	U		5.4	U	
CARBON DISULFIDE	12	U		11	U		11	U		11	U	
CARBON TETRACHLORIDE	2.4	U		2.2	U		2.2	U		2.2	U	
CHLOROBENZENE	2.4	U		2.2	U		2.2	U		2.2	U	
CHLOROETHANE	6	U		5.5	U		5.4	U		5.4	U	
CHLOROFORM	2.4	U		2.2	U		2.2	U		2.2	U	
CHLOROMETHANE	6	U		5.5	U		5.4	U		5.4	U	
CIS-1,2-DICHLOROETHENE	2.4	U		2.2	U		2.2	U		2.2	U	
CIS-1,3-DICHLOROPROPENE	2.4	U		2.2	U		2.2	U		2.2	U	
DIBROMOCHLOROMETHANE	2.4	U		2.2	U		2.2	U		2.2	U	
ETHYLBENZENE	2.4	U		2.2	U		2.2	U		2.2	U	
METHYL TERT-BUTYL ETHER	2.4	U		2.2	U		2.2	U		2.2	U	
METHYLENE CHLORIDE	12	U		11	U		11	U		11	U	
STYRENE	2.4	U		2.2	U		2.2	U		2.2	U	
TETRACHLOROETHENE	2.4	U		2.2	U		2.2	U		2.2	U	
TOLUENE	2.4	U		2.2	U		2.2	U		2.2	U	
TRANS-1,2-DICHLOROETHENE	2.4	U		2.2	U		2.2	U		2.2	U	
TRANS-1,3-DICHLOROPROPENE	2.4	U		2.2	U		2.2	U		2.2	U	
TRICHLOROETHENE	2.4	U		2.2	U		2.2	U		2.2	U	
VINYL CHLORIDE	6	U		5.5	U		5.4	U		5.4	U	

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-009-06.5			CEF-NSH-SU-010-05.5			CEF-NSH-SU-011-06.0			CEF-NSH-SU-012-05.5		
SAMPLE DATE:	11/17/99			11/17/99			11/17/99			11/17/99		
LABORATORY ID:	F5313-9			F5313-10			F5313-11			F5313-12		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	83.0 %			90.1 %			86.3 %			89.5 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
XYLENES, TOTAL	7.3	U		6.6	U		6.5	U		6.5	U	

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-009-06.5			CEF-NSH-SU-010-05.5			CEF-NSH-SU-011-06.0			CEF-NSH-SU-012-05.5		
SAMPLE DATE:	11/17/99			11/17/99			11/17/99			11/17/99		
LABORATORY ID:	F5313-9			F5313-10			F5313-11			F5313-12		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	83.0 %			90.1 %			86.3 %			89.5 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	80	U		73	U		73	U		74	U	
2-METHYLNAPHTHALENE	80	U		73	U		73	U		74	U	
ACENAPHTHENE	80	U		73	U		73	U		74	U	
ACENAPHTHYLENE	80	U		73	U		73	U		74	U	
ANTHRACENE	80	U		73	U		73	U		74	U	
BENZO(A)ANTHRACENE	12	U		11	U		11	U		11	U	
BENZO(A)PYRENE	12	U		11	U		18.7			11	U	
BENZO(B)FLUORANTHENE	12	U		11	U		11	U		11	U	
BENZO(G,H,I)PERYLENE	12	U		11	U		11.2			14		
BENZO(K)FLUORANTHENE	12	U		11	U		11	U		11	U	
CHRYSENE	12	U		11	U		11	U		11	U	
DIBENZO(A,H)ANTHRACENE	12	U		11	U		11	U		11	U	
FLUORANTHENE	12	U		11	U		11	U		11	U	
FLUORENE	80	U		73	U		73	U		74	U	
INDENO(1,2,3-CD)PYRENE	12	U		11	U		11	U		11	U	
NAPHTHALENE	80	U		73	U		73	U		74	U	
PHENANTHRENE	80	U		73	U		73	U		74	U	
PYRENE	12	U		11	U		11	U		11	U	

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-009-06.5			CEF-NSH-SU-010-05.5			CEF-NSH-SU-011-06.0			CEF-NSH-SU-012-05.5		
SAMPLE DATE:	11/17/99			11/17/99			11/17/99			11/17/99		
LABORATORY ID:	F5313-9			F5313-10			F5313-11			F5313-12		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	83.0 %			90.1 %			86.3 %			89.5 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	100	U		92	U		96	U		93	U	

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-013-07			CEF-NSH-SU-DUP02								
SAMPLE DATE:	11/17/99			11/17/99			/ /			/ /		
LABORATORY ID:	F5313-13			F5313-14								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	77.5 %			85.8 %			100.0 %			100.0 %		
UNITS:	UG/KG			UG/KG								
FIELD DUPLICATE OF:				CEF-NSH-SU-001-05								
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2.6	U		2.3	U							
1,1,2,2-TETRACHLOROETHANE	2.6	U		2.3	U							
1,1,2-TRICHLOROETHANE	2.6	U		2.3	U							
1,1-DICHLOROETHANE	2.6	U		2.3	U							
1,1-DICHLOROETHENE	2.6	U		2.3	U							
1,2-DICHLOROETHANE	2.6	U		2.3	U							
1,2-DICHLOROPROPANE	2.6	U		2.3	U							
2-BUTANONE	13	U		12	U							
2-HEXANONE	13	U		12	U							
4-METHYL-2-PENTANONE	13	U		12	U							
ACETONE	57.3	J	P	58	U							
BENZENE	2.6	U		2.3	U							
BROMODICHLOROMETHANE	2.6	U		2.3	U							
BROMOFORM	2.6	U		2.3	U							
BROMOMETHANE	6.6	U		5.8	U							
CARBON DISULFIDE	13	U		12	U							
CARBON TETRACHLORIDE	2.6	U		2.3	U							
CHLOROBENZENE	2.6	U		2.3	U							
CHLOROETHANE	6.6	U		5.8	U							
CHLOROFORM	2.6	U		2.3	U							
CHLOROMETHANE	6.6	U		5.8	U							
CIS-1,2-DICHLOROETHENE	2.6	U		2.3	U							
CIS-1,3-DICHLOROPROPENE	2.6	U		2.3	U							
DIBROMOCHLOROMETHANE	2.6	U		2.3	U							
ETHYLBENZENE	2.6	U		2.3	U							
METHYL TERT-BUTYL ETHER	2.6	U		2.3	U							
METHYLENE CHLORIDE	13	U		12	U							
STYRENE	2.6	U		2.3	U							
TETRACHLOROETHENE	2.6	U		2.3	U							
TOLUENE	2.6	U		2.3	U							
TRANS-1,2-DICHLOROETHENE	2.6	U		2.3	U							
TRANS-1,3-DICHLOROPROPENE	2.6	U		2.3	U							
TRICHLOROETHENE	2.6	U		2.3	U							
VINYL CHLORIDE	6.6	U		5.8	U							

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-013-07			CEF-NSH-SU-DUP02								
SAMPLE DATE:	11/17/99			11/17/99			/ /			/ /		
LABORATORY ID:	F5313-13			F5313-14								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	77.5 %			85.8 %			100.0 %			100.0 %		
UNITS:	UG/KG			UG/KG								
FIELD DUPLICATE OF:				CEF-NSH-SU-001-05								
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
XYLENES, TOTAL	7.9	U		7	U							

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-013-07			CEF-NSH-SU-DUP02								
SAMPLE DATE:	11/17/99			11/17/99			/ /			/ /		
LABORATORY ID:	F5313-13			F5313-14								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	77.5 %			85.8 %			100.0 %			100.0 %		
UNITS:	UG/KG			UG/KG								
FIELD DUPLICATE OF:				CEF-NSH-SU-001-05								
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	85	U		77	U							
2-METHYLNAPHTHALENE	85	U		77	U							
ACENAPHTHENE	85	U		77	U							
ACENAPHTHYLENE	85	U		77	U							
ANTHRACENE	85	U		77	U							
BENZO(A)ANTHRACENE	13	U		12	U							
BENZO(A)PYRENE	13	U		12	U							
BENZO(B)FLUORANTHENE	13	U		12	U							
BENZO(G,H,I)PERYLENE	19.5			12	U							
BENZO(K)FLUORANTHENE	13.9			12	U							
CHRYSENE	13	U		12	U							
DIBENZO(A,H)ANTHRACENE	13	U		12	U							
FLUORANTHENE	21.2			12	U							
FLUORENE	85	U		77	U							
INDENO(1,2,3-CD)PYRENE	13	U		12	U							
NAPHTHALENE	85	U		77	U							
PHENANTHRENE	85	U		77	U							
PYRENE	13	U		12	U							

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5313

SAMPLE NUMBER:	CEF-NSH-SU-013-07			CEF-NSH-SU-DUP02								
SAMPLE DATE:	11/17/99			11/17/99			/ /			/ /		
LABORATORY ID:	F5313-13			F5313-14								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	77.5 %			85.8 %			100.0 %			100.0 %		
UNITS:	UG/KG			UG/KG								
FIELD DUPLICATE OF:				CEF-NSH-SU-001-05								
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	110	U		97	U							

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-001-05		
Lab Sample ID:	F5313-1	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	86.1
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K004808.D	1	11/29/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	61	ug/kg	
71-43-2	Benzene	ND	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	ug/kg	
75-25-2	Bromoform	ND	2.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	ug/kg	
75-00-3	Chloroethane	ND	6.1	ug/kg	
67-66-3	Chloroform	ND	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	ug/kg	
100-41-4	Ethylbenzene	ND	2.4	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	6.1	ug/kg	
74-87-3	Methyl chloride	ND	6.1	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	ug/kg	
100-42-5	Styrene	ND	2.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.4	ug/kg	
108-88-3	Toluene	ND	2.4	ug/kg	
79-01-6	Trichloroethylene	ND	2.4	ug/kg	
75-01-4	Vinyl chloride	ND	6.1	ug/kg	
1330-20-7	Xylene (total)	ND	7.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000001A

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-001-05		
Lab Sample ID:	F5313-1	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	86.1
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		71-122%
2037-26-5	Toluene-D8	84%		73-128%
460-00-4	4-Bromofluorobenzene	128%		53-158%
17060-07-0	1,2-Dichloroethane-D4	105%		71-122%

000002

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

~~200001~~

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-001-05		
Lab Sample ID:	F5313-1	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	86.1
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7314.D	1	12/07/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	74	ug/kg	
208-96-8	Acenaphthylene	ND	74	ug/kg	
120-12-7	Anthracene	ND	74	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	74	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	74	ug/kg	
91-57-6	2-Methylnaphthalene	ND	74	ug/kg	
91-20-3	Naphthalene	ND	74	ug/kg	
85-01-8	Phenanthrene	ND	74	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-001-05		
Lab Sample ID:	F5313-1	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	86.1
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05883.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	97	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000003

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-002-05		
Lab Sample ID:	F5313-2	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	87.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K004809.D	1	11/29/99	RAW	n/a	n/a	VK122
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	60	ug/kg	
71-43-2	Benzene	ND	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	ug/kg	
75-25-2	Bromoform	ND	2.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	ug/kg	
75-00-3	Chloroethane	ND	6.0	ug/kg	
67-66-3	Chloroform	ND	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	ug/kg	
100-41-4	Ethylbenzene	ND	2.4	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	6.0	ug/kg	
74-87-3	Methyl chloride	ND	6.0	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	ug/kg	
100-42-5	Styrene	ND	2.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.4	ug/kg	
108-88-3	Toluene	ND	2.4	ug/kg	
79-01-6	Trichloroethylene	ND	2.4	ug/kg	
75-01-4	Vinyl chloride	ND	6.0	ug/kg	
1330-20-7	Xylene (total)	ND	7.1	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-002-05		
Lab Sample ID:	F5313-2	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	87.3
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		71-122%
2037-26-5	Toluene-D8	84%		73-128%
460-00-4	4-Bromofluorobenzene	106%		53-158%
17060-07-0	1,2-Dichloroethane-D4	104%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-002-05		
Lab Sample ID:	F5313-2	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	87.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7315.D	1	12/08/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	73	ug/kg	
208-96-8	Acenaphthylene	ND	73	ug/kg	
120-12-7	Anthracene	ND	73	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	22.9	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	12.9	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	73	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	73	ug/kg	
91-57-6	2-Methylnaphthalene	ND	73	ug/kg	
91-20-3	Naphthalene	ND	73	ug/kg	
85-01-8	Phenanthrene	ND	73	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-002-05		
Lab Sample ID:	F5313-2	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	87.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05886.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	95	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000007

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-003-05		
Lab Sample ID:	F5313-3	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	86.4
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005159.D	1	11/30/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	54	ug/kg	
71-43-2	Benzene	ND	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	ug/kg	
74-87-3	Methyl chloride	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
100-42-5	Styrene	ND	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.2	ug/kg	
108-88-3	Toluene	ND	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	ug/kg	
1330-20-7	Xylene (total)	ND	6.5	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-003-05		
Lab Sample ID:	F5313-3	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	86.4
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	106%		53-158%
17060-07-0	1,2-Dichloroethane-D4	103%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-003-05		
Lab Sample ID:	F5313-3	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	86.4
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7316.D	1	12/08/99	AMA	12/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	76	ug/kg	
208-96-8	Acenaphthylene	ND	76	ug/kg	
120-12-7	Anthracene	ND	76	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	13.4	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	76	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	76	ug/kg	
91-20-3	Naphthalene	ND	76	ug/kg	
85-01-8	Phenanthrene	ND	76	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		20-130%

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-003-05		
Lab Sample ID:	F5313-3	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	86.4
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05887.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	96	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-004-05		
Lab Sample ID:	F5313-4	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	88.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K004811.D	1	11/29/99	RAW	n/a	n/a	VK122
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	54	ug/kg	
71-43-2	Benzene	ND	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	ug/kg	
74-87-3	Methyl chloride	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
100-42-5	Styrene	ND	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.2	ug/kg	
108-88-3	Toluene	ND	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	ug/kg	
1330-20-7	Xylene (total)	ND	6.5	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-004-05	**Date Sampled:**	11/17/99
Lab Sample ID:	F5313-4	**Date Received:**	11/18/99
Matrix:	SO - Soil	**Percent Solids:**	88.9
Method:	SW846 8260B		
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		71-122%
2037-26-5	Toluene-D8	90%		73-128%
460-00-4	4-Bromofluorobenzene	132%		53-158%
17060-07-0	1,2-Dichloroethane-D4	117%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-004-05		
Lab Sample ID:	F5313-4	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	88.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7317.D	1	12/08/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	73	ug/kg	
208-96-8	Acenaphthylene	ND	73	ug/kg	
120-12-7	Anthracene	ND	73	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	14.1	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	73	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	73	ug/kg	
91-57-6	2-Methylnaphthalene	ND	73	ug/kg	
91-20-3	Naphthalene	ND	73	ug/kg	
85-01-8	Phenanthrene	ND	73	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-004-05		
Lab Sample ID:	F5313-4	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	88.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05888.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	94	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-005-05		
Lab Sample ID:	F5313-5	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	87.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005160.D	1	11/30/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	62	ug/kg	
71-43-2	Benzene	ND	2.5	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	ug/kg	
75-25-2	Bromoform	ND	2.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	ug/kg	
75-00-3	Chloroethane	ND	6.2	ug/kg	
67-66-3	Chloroform	ND	2.5	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	ug/kg	
100-41-4	Ethylbenzene	ND	2.5	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	6.2	ug/kg	
74-87-3	Methyl chloride	ND	6.2	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	ug/kg	
100-42-5	Styrene	ND	2.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.5	ug/kg	
108-88-3	Toluene	ND	2.5	ug/kg	
79-01-6	Trichloroethylene	ND	2.5	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	ug/kg	
1330-20-7	Xylene (total)	ND	7.4	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-005-05	**Date Sampled:**	11/17/99
Lab Sample ID:	F5313-5	**Date Received:**	11/18/99
Matrix:	SO - Soil	**Percent Solids:**	87.9
Method:	SW846 8260B		
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	102%		53-158%
17060-07-0	1,2-Dichloroethane-D4	104%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-005-05		
Lab Sample ID:	F5313-5	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	87.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7318.D	1	12/08/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	72	ug/kg	
208-96-8	Acenaphthylene	ND	72	ug/kg	
120-12-7	Anthracene	ND	72	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	31.8	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	17.6	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	72	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	72	ug/kg	
91-57-6	2-Methylnaphthalene	ND	72	ug/kg	
91-20-3	Naphthalene	ND	72	ug/kg	
85-01-8	Phenanthrene	ND	72	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	125%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-005-05		
Lab Sample ID:	F5313-5	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	87.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05889.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	95	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-006-05		
Lab Sample ID:	F5313-6	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	84.7
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005161.D	1	11/30/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	68	ug/kg	
71-43-2	Benzene	ND	2.7	ug/kg	
75-27-4	Bromodichloromethane	ND	2.7	ug/kg	
75-25-2	Bromoform	ND	2.7	ug/kg	
108-90-7	Chlorobenzene	ND	2.7	ug/kg	
75-00-3	Chloroethane	ND	6.8	ug/kg	
67-66-3	Chloroform	ND	2.7	ug/kg	
75-15-0	Carbon disulfide	ND	14	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.7	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.7	ug/kg	
124-48-1	Dibromochloromethane	ND	2.7	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.7	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.7	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.7	ug/kg	
100-41-4	Ethylbenzene	ND	2.7	ug/kg	
591-78-6	2-Hexanone	ND	14	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	14	ug/kg	
74-83-9	Methyl bromide	ND	6.8	ug/kg	
74-87-3	Methyl chloride	ND	6.8	ug/kg	
75-09-2	Methylene chloride	ND	14	ug/kg	
78-93-3	Methyl ethyl ketone	ND	14	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.7	ug/kg	
100-42-5	Styrene	ND	2.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.7	ug/kg	
108-88-3	Toluene	ND	2.7	ug/kg	
79-01-6	Trichloroethylene	ND	2.7	ug/kg	
75-01-4	Vinyl chloride	ND	6.8	ug/kg	
1330-20-7	Xylene (total)	ND	8.2	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-006-05		
Lab Sample ID:	F5313-6	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	84.7
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		71-122%
2037-26-5	Toluene-D8	108%		73-128%
460-00-4	4-Bromofluorobenzene	105%		53-158%
17060-07-0	1,2-Dichloroethane-D4	106%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000022

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-006-05		
Lab Sample ID:	F5313-6	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	84.7
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7319.D	1	12/08/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	76	ug/kg	
208-96-8	Acenaphthylene	ND	76	ug/kg	
120-12-7	Anthracene	ND	76	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	76	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	76	ug/kg	
91-20-3	Naphthalene	ND	76	ug/kg	
85-01-8	Phenanthrene	ND	76	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-006-05		
Lab Sample ID:	F5313-6	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	84.7
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05890.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	98	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	103%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-007-05.5		
Lab Sample ID:	F5313-7	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	80.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005162.D	1	11/30/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	115	63	ug/kg	
71-43-2	Benzene	ND	2.5	ug/kg	
75-27-4	Bromodichloromethane	ND	2.5	ug/kg	
75-25-2	Bromoform	ND	2.5	ug/kg	
108-90-7	Chlorobenzene	ND	2.5	ug/kg	
75-00-3	Chloroethane	ND	6.3	ug/kg	
67-66-3	Chloroform	ND	2.5	ug/kg	
75-15-0	Carbon disulfide	ND	13	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.5	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.5	ug/kg	
124-48-1	Dibromochloromethane	ND	2.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	ug/kg	
100-41-4	Ethylbenzene	ND	2.5	ug/kg	
591-78-6	2-Hexanone	ND	13	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	13	ug/kg	
74-83-9	Methyl bromide	ND	6.3	ug/kg	
74-87-3	Methyl chloride	ND	6.3	ug/kg	
75-09-2	Methylene chloride	ND	13	ug/kg	
78-93-3	Methyl ethyl ketone	ND	13	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.5	ug/kg	
100-42-5	Styrene	ND	2.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.5	ug/kg	
108-88-3	Toluene	ND	2.5	ug/kg	
79-01-6	Trichloroethylene	ND	2.5	ug/kg	
75-01-4	Vinyl chloride	ND	6.3	ug/kg	
1330-20-7	Xylene (total)	ND	7.6	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-007-05.5		
Lab Sample ID:	F5313-7	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	80.2
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		71-122%
2037-26-5	Toluene-D8	103%		73-128%
460-00-4	4-Bromofluorobenzene	121%		53-158%
17060-07-0	1,2-Dichloroethane-D4	106%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-007-05.5		
Lab Sample ID:	F5313-7	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	80.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7320.D	1	12/08/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	81	ug/kg	
208-96-8	Acenaphthylene	ND	81	ug/kg	
120-12-7	Anthracene	ND	81	ug/kg	
56-55-3	Benzo (a) anthracene	ND	12	ug/kg	
50-32-8	Benzo (a) pyrene	ND	12	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	12	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	12	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	12	ug/kg	
218-01-9	Chrysene	ND	12	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	12	ug/kg	
206-44-0	Fluoranthene	ND	12	ug/kg	
86-73-7	Fluorene	ND	81	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	12	ug/kg	
90-12-0	1-Methylnaphthalene	ND	81	ug/kg	
91-57-6	2-Methylnaphthalene	ND	81	ug/kg	
91-20-3	Naphthalene	ND	81	ug/kg	
85-01-8	Phenanthrene	ND	81	ug/kg	
129-00-0	Pyrene	ND	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000028

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-007-05.5		
Lab Sample ID:	F5313-7	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	80.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05892.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	100	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000027

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-008-05.5		
Lab Sample ID:	F5313-8	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	87.7
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005163.D	1	11/30/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	23.6	52	ug/kg	J
71-43-2	Benzene	ND	2.1	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	ug/kg	
75-25-2	Bromoform	ND	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	2.1	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	ug/kg	
100-41-4	Ethylbenzene	ND	2.1	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.1	ug/kg	
100-42-5	Styrene	ND	2.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.1	ug/kg	
108-88-3	Toluene	ND	2.1	ug/kg	
79-01-6	Trichloroethylene	ND	2.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	6.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000029

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-008-05.5	**Date Sampled:**	11/17/99
Lab Sample ID:	F5313-8	**Date Received:**	11/18/99
Matrix:	SO - Soil	**Percent Solids:**	87.7
Method:	SW846 8260B		
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	112%		53-158%
17060-07-0	1,2-Dichloroethane-D4	104%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-008-05.5		
Lab Sample ID:	F5313-8	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	87.7
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7321.D	1	12/08/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	890	75	ug/kg	
208-96-8	Acenaphthylene	629	75	ug/kg	
120-12-7	Anthracene	ND	75	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	38.7	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	106	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	27.7	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	6100	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	75	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	75	ug/kg	
91-57-6	2-Methylnaphthalene	ND	75	ug/kg	
91-20-3	Naphthalene	ND	75	ug/kg	
85-01-8	Phenanthrene	ND	75	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-008-05.5		
Lab Sample ID:	F5313-8	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	87.7
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05893.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	87.4	95	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	110%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-009-06.5		
Lab Sample ID:	F5313-9	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	83.0
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005170.D	1	12/01/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	60	ug/kg	
71-43-2	Benzene	ND	2.4	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	ug/kg	
75-25-2	Bromoform	ND	2.4	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	ug/kg	
75-00-3	Chloroethane	ND	6.0	ug/kg	
67-66-3	Chloroform	ND	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.4	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	ug/kg	
100-41-4	Ethylbenzene	ND	2.4	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	6.0	ug/kg	
74-87-3	Methyl chloride	ND	6.0	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.4	ug/kg	
100-42-5	Styrene	ND	2.4	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.4	ug/kg	
108-88-3	Toluene	ND	2.4	ug/kg	
79-01-6	Trichloroethylene	ND	2.4	ug/kg	
75-01-4	Vinyl chloride	ND	6.0	ug/kg	
1330-20-7	Xylene (total)	ND	7.3	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-009-06.5		
Lab Sample ID:	F5313-9	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	83.0
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	112%		53-158%
17060-07-0	1,2-Dichloroethane-D4	106%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-009-06.5		
Lab Sample ID:	F5313-9	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	83.0
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7322.D	1	12/08/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	80	ug/kg	
208-96-8	Acenaphthylene	ND	80	ug/kg	
120-12-7	Anthracene	ND	80	ug/kg	
56-55-3	Benzo (a) anthracene	ND	12	ug/kg	
50-32-8	Benzo (a) pyrene	ND	12	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	12	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	12	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	12	ug/kg	
218-01-9	Chrysene	ND	12	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	12	ug/kg	
206-44-0	Fluoranthene	ND	12	ug/kg	
86-73-7	Fluorene	ND	80	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	12	ug/kg	
90-12-0	1-Methylnaphthalene	ND	80	ug/kg	
91-57-6	2-Methylnaphthalene	ND	80	ug/kg	
91-20-3	Naphthalene	ND	80	ug/kg	
85-01-8	Phenanthrene	ND	80	ug/kg	
129-00-0	Pyrene	ND	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-009-06.5		
Lab Sample ID:	F5313-9	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	83.0
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05894.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	100	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-010-05.5		
Lab Sample ID:	F5313-10	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	90.1
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005171.D	1	12/01/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	55	ug/kg	
71-43-2	Benzene	ND	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.5	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.5	ug/kg	
74-87-3	Methyl chloride	ND	5.5	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
100-42-5	Styrene	ND	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.2	ug/kg	
108-88-3	Toluene	ND	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	ug/kg	
1330-20-7	Xylene (total)	ND	6.6	ug/kg	

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-010-05.5		
Lab Sample ID:	F5313-10	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	90.1
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		71-122%
2037-26-5	Toluene-D8	99%		73-128%
460-00-4	4-Bromofluorobenzene	106%		53-158%
17060-07-0	1,2-Dichloroethane-D4	106%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000038

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-010-05.5		
Lab Sample ID:	F5313-10	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	90.1
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7323.D	1	12/08/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	73	ug/kg	
208-96-8	Acenaphthylene	ND	73	ug/kg	
120-12-7	Anthracene	ND	73	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	73	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	73	ug/kg	
91-57-6	2-Methylnaphthalene	ND	73	ug/kg	
91-20-3	Naphthalene	ND	73	ug/kg	
85-01-8	Phenanthrene	ND	73	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000041

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-010-05.5		
Lab Sample ID:	F5313-10	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	90.1
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05895.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	92	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	102%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000039

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-011-06.0		
Lab Sample ID:	F5313-11	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	86.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005172.D	1	12/01/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	40.0	54	ug/kg	J
71-43-2	Benzene	ND	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	ug/kg	
74-87-3	Methyl chloride	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
100-42-5	Styrene	ND	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.2	ug/kg	
108-88-3	Toluene	ND	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	ug/kg	
1330-20-7	Xylene (total)	ND	6.5	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-011-06.0	**Date Sampled:**	11/17/99
Lab Sample ID:	F5313-11	**Date Received:**	11/18/99
Matrix:	SO - Soil	**Percent Solids:**	86.3
Method:	SW846 8260B		
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	101%		53-158%
17060-07-0	1,2-Dichloroethane-D4	107%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-011-06.0		
Lab Sample ID:	F5313-11	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	86.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7324.D	1	12/08/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	73	ug/kg	
208-96-8	Acenaphthylene	ND	73	ug/kg	
120-12-7	Anthracene	ND	73	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	18.7	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	11.2	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	73	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	73	ug/kg	
91-57-6	2-Methylnaphthalene	ND	73	ug/kg	
91-20-3	Naphthalene	ND	73	ug/kg	
85-01-8	Phenanthrene	ND	73	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-011-06.0		
Lab Sample ID:	F5313-11	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	86.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05896.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	96	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000043

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-012-05.5		
Lab Sample ID:	F5313-12	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	89.5
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005173.D	1	12/01/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	54	ug/kg	
71-43-2	Benzene	ND	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	ug/kg	
74-87-3	Methyl chloride	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
100-42-5	Styrene	ND	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.2	ug/kg	
108-88-3	Toluene	ND	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	ug/kg	
1330-20-7	Xylene (total)	ND	6.5	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-012-05.5		
Lab Sample ID:	F5313-12	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	89.5
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	104%		53-158%
17060-07-0	1,2-Dichloroethane-D4	106%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-012-05.5		
Lab Sample ID:	F5313-12	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	89.5
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7328.D	1	12/08/99	AMA	12/01/99	M:OP1582	M:GLC73
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	74	ug/kg	
208-96-8	Acenaphthylene	ND	74	ug/kg	
120-12-7	Anthracene	ND	74	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	14.0	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	74	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	74	ug/kg	
91-57-6	2-Methylnaphthalene	ND	74	ug/kg	
91-20-3	Naphthalene	ND	74	ug/kg	
85-01-8	Phenanthrene	ND	74	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-012-05.5		
Lab Sample ID:	F5313-12	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	89.5
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05897.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	93	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		40-140%

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SU-013-07		
Lab Sample ID:	F5313-13	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	77.5
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005174.D	1	12/01/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	57.3	66	ug/kg	J
71-43-2	Benzene	ND	2.6	ug/kg	
75-27-4	Bromodichloromethane	ND	2.6	ug/kg	
75-25-2	Bromoform	ND	2.6	ug/kg	
108-90-7	Chlorobenzene	ND	2.6	ug/kg	
75-00-3	Chloroethane	ND	6.6	ug/kg	
67-66-3	Chloroform	ND	2.6	ug/kg	
75-15-0	Carbon disulfide	ND	13	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.6	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.6	ug/kg	
124-48-1	Dibromochloromethane	ND	2.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.6	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.6	ug/kg	
100-41-4	Ethylbenzene	ND	2.6	ug/kg	
591-78-6	2-Hexanone	ND	13	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	13	ug/kg	
74-83-9	Methyl bromide	ND	6.6	ug/kg	
74-87-3	Methyl chloride	ND	6.6	ug/kg	
75-09-2	Methylene chloride	ND	13	ug/kg	
78-93-3	Methyl ethyl ketone	ND	13	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.6	ug/kg	
100-42-5	Styrene	ND	2.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.6	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.6	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.6	ug/kg	
108-88-3	Toluene	ND	2.6	ug/kg	
79-01-6	Trichloroethylene	ND	2.6	ug/kg	
75-01-4	Vinyl chloride	ND	6.6	ug/kg	
1330-20-7	Xylene (total)	ND	7.9	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000049

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-013-07		
Lab Sample ID:	F5313-13	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	77.5
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	111%		53-158%
17060-07-0	1,2-Dichloroethane-D4	110%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-013-07		
Lab Sample ID:	F5313-13	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	77.5
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7329.D	1	12/08/99	AMA	12/01/99	M:OP1582	M:GLC73
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	85	ug/kg	
208-96-8	Acenaphthylene	ND	85	ug/kg	
120-12-7	Anthracene	ND	85	ug/kg	
56-55-3	Benzo (a) anthracene	ND	13	ug/kg	
50-32-8	Benzo (a) pyrene	ND	13	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	13	ug/kg	
191-24-2	Benzo (g,h,i) perylene	19.5	13	ug/kg	
207-08-9	Benzo (k) fluoranthene	13.9	13	ug/kg	
218-01-9	Chrysene	ND	13	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	13	ug/kg	
206-44-0	Fluoranthene	21.2	13	ug/kg	
86-73-7	Fluorene	ND	85	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	13	ug/kg	
90-12-0	1-Methylnaphthalene	ND	85	ug/kg	
91-57-6	2-Methylnaphthalene	ND	85	ug/kg	
91-20-3	Naphthalene	ND	85	ug/kg	
85-01-8	Phenanthrene	ND	85	ug/kg	
129-00-0	Pyrene	ND	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-013-07		
Lab Sample ID:	F5313-13	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	77.5
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05898.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	110	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000051

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-DUP02		
Lab Sample ID:	F5313-14	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	85.8
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005175.D	1	12/01/99	CJP	n/a	n/a	VH14
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	58	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	12	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	5.8	ug/kg	
74-87-3	Methyl chloride	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
100-42-5	Styrene	ND	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	2.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	7.0	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-DUP02		
Lab Sample ID:	F5313-14	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8260B	**Percent Solids:**	85.8
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		71-122%
2037-26-5	Toluene-D8	100%		73-128%
460-00-4	4-Bromofluorobenzene	102%		53-158%
17060-07-0	1,2-Dichloroethane-D4	110%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-DUP02		
Lab Sample ID:	F5313-14	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	SW846 8310	**Percent Solids:**	85.8
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7330.D	1	12/08/99	AMA	12/01/99	M:OP1582	M:GLC73
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	77	ug/kg	
208-96-8	Acenaphthylene	ND	77	ug/kg	
120-12-7	Anthracene	ND	77	ug/kg	
56-55-3	Benzo (a) anthracene	ND	12	ug/kg	
50-32-8	Benzo (a) pyrene	ND	12	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	12	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	12	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	12	ug/kg	
218-01-9	Chrysene	ND	12	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	12	ug/kg	
206-44-0	Fluoranthene	ND	12	ug/kg	
86-73-7	Fluorene	ND	77	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	12	ug/kg	
90-12-0	1-Methylnaphthalene	ND	77	ug/kg	
91-57-6	2-Methylnaphthalene	ND	77	ug/kg	
91-20-3	Naphthalene	ND	77	ug/kg	
85-01-8	Phenanthrene	ND	77	ug/kg	
129-00-0	Pyrene	ND	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000056

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-DUP02		
Lab Sample ID:	F5313-14	**Date Sampled:**	11/17/99
Matrix:	SO - Soil	**Date Received:**	11/18/99
Method:	FLORIDA-PRO	**Percent Solids:**	85.8
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05899.D	1	11/23/99	ME	11/19/99	OP1098	GOP284
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	97	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	102%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

PITT-01-0-006

TO: **MARK SPERANZA** **DATE** **FEBRUARY 3, 2000**

FROM: **JUSTIN ORBICH** **CC:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA/PAH/TPH**
CTO 078 – NAS CECIL FIELD
SDG F5303

SAMPLES: 5/Soil

CEF-NSH-SS-009-01
CEF-NSH-SS-011-01
CEF-NSH-SS-DUP1-01
CEF-NSH-SS-010-01
CEF-NSH-SS-012-01

OVERVIEW

The sample set for CTO 078, SDG F5303 Naval Air Station (NAS) Cecil Field; Florida consists of five (5) soil environmental samples. The samples were analyzed for Target Compound List (TCL) volatile, Polynuclear Aromatic Hydrocarbon (PAH), and Total Petroleum Hydrocarbon (TPH) organic compounds. One (1) field duplicate pair (CEF-NSH-SS-009-01/CEF-NSH-SS-DUP1-01) was included within this SDG.

The samples were collected by Tetra Tech, NUS on and November 16th, 1999 and analyzed by Accutest Laboratories. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW 846 Method 8260B, 8310, and FLORIDA-PRO analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

* • Data Completeness
* • Holding Times
* • Initial/continuing calibrations
* • Laboratory method/field quality control blank results
* • Detection Limits
• Field Duplicate Precision

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified analytical results are presented in Appendix A.

VOLATILE FRACTION

It should be noted that the laboratory failed to report methyl tert-butyl ether (MTBE) on the Form Is or the electronic data. The laboratory was notified and in return re-submitted the Form Is and the electronic data.

MEMO TO: **MR. M. SPERANZA**
DATE: **FEBRUARY 3, 2000 – PAGE 2**

PAH FRACTION

All quality control parameters were met for this fraction.

TPH FRACTION

All quality control parameters were met for this fraction.

ADDITIONAL COMMENTS

Positive results reported below the CRQL are qualified as estimated (J).

EXECUTIVE SUMMARY

Laboratory performance: The laboratory failed to reported MTBE on the Form Is and the electronic data.

Other Factors Affecting Data Quality: None.

MEMO TO: MR. M. SPERANZA
DATE: FEBRUARY 3, 2000 – PAGE 3

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (February, 1994), and the NFESC "Navy Installation Restoration Program Laboratory Quality Assurance Guide" (February, 1996). The text of this report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Justin Orbich

Chemist/Data Validator
Tetra Tech, NUS

Joseph A. Samchuck

Data Validation Quality Assurance Officer
Tetra Tech, NUS

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

DATA QUALIFIER DEFINITIONS:

U - Value is a nondetected result as reported by the laboratory and should not be considered present.

J - Positive result is estimated as a result of a value below the CRQL or a technical noncompliance.

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCB D% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = % Solid content is less than 30%

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5303

SAMPLE NUMBER:	CEF-NSH-SS-009-01			CEF-NSH-SS-010-01			CEF-NSH-SS-011-01			CEF-NSH-SS-012-01		
SAMPLE DATE:	11/16/99			11/16/99			11/16/99			11/16/99		
LABORATORY ID:	F5303-1			F5303-2			F5303-3			F5303-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	93.6 %			91.2 %			94.3 %			94.1 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2.2	U		2.3	U		2.2	U		2.2	U	
1,1,2,2-TETRACHLOROETHANE	2.2	U		2.3	U		2.2	U		2.2	U	
1,1,2-TRICHLOROETHANE	2.2	U		2.3	U		2.2	U		2.2	U	
1,1-DICHLOROETHANE	2.2	U		2.3	U		2.2	U		2.2	U	
1,1-DICHLOROETHENE	2.2	U		2.3	U		2.2	U		2.2	U	
1,2-DICHLOROETHANE	2.2	U		2.3	U		2.2	U		2.2	U	
1,2-DICHLOROPROPANE	2.2	U		2.3	U		2.2	U		2.2	U	
2-BUTANONE	11	U		12	U		11	U		11	U	
2-HEXANONE	11	U		12	U		11	U		11	U	
4-METHYL-2-PENTANONE	11	U		12	U		11	U		11	U	
ACETONE	56	U		58	U		56	U		54	U	
BENZENE	2.2	U		2.3	U		2.2	U		2.2	U	
BROMODICHLOROMETHANE	2.2	U		2.3	U		2.2	U		2.2	U	
BROMOFORM	2.2	U		2.3	U		2.2	U		2.2	U	
BROMOMETHANE	5.6	U		5.8	U		5.6	U		5.4	U	
CARBON DISULFIDE	5.6	U		5.8	U		5.6	U		5.4	U	
CARBON TETRACHLORIDE	2.2	U		2.3	U		2.2	U		2.2	U	
CHLOROBENZENE	2.2	U		2.3	U		2.2	U		2.2	U	
CHLOROETHANE	5.6	U		5.8	U		5.6	U		5.4	U	
CHLOROFORM	2.2	U		2.3	U		2.2	U		2.2	U	
CHLOROMETHANE	5.6	U		5.8	U		5.6	U		5.4	U	
CIS-1,2-DICHLOROETHENE	2.2	U		2.3	U		2.2	U		2.2	U	
CIS-1,3-DICHLOROPROPENE	2.2	U		2.3	U		2.2	U		2.2	U	
DIBROMOCHLOROMETHANE	2.2	U		2.3	U		2.2	U		2.2	U	
ETHYLBENZENE	2.2	U		2.3	U		2.2	U		2.2	U	
METHYL TERT-BUTYL ETHER	2.2	U		2.3	U		2.2	U		2.2	U	
METHYLENE CHLORIDE	11	U		12	U		11	U		11	U	
STYRENE	2.2	U		2.3	U		2.2	U		2.2	U	
TETRACHLOROETHENE	2.2	U		2.3	U		2.2	U		2.2	U	
TOLUENE	2.2	U		2.3	U		2.2	U		2.2	U	
TRANS-1,2-DICHLOROETHENE	2.2	U		2.3	U		2.2	U		2.2	U	
TRANS-1,3-DICHLOROPROPENE	2.2	U		2.3	U		2.2	U		2.2	U	
TRICHLOROETHENE	2.2	U		2.3	U		2.2	U		2.2	U	
VINYL CHLORIDE	5.6	U		5.8	U		5.6	U		5.4	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5303

SAMPLE NUMBER:	CEF-NSH-SS-009-01			CEF-NSH-SS-010-01			CEF-NSH-SS-011-01			CEF-NSH-SS-012-01		
SAMPLE DATE:	11/16/99			11/16/99			11/16/99			11/16/99		
LABORATORY ID:	F5303-1			F5303-2			F5303-3			F5303-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	93.6 %			91.2 %			94.3 %			94.1 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
XYLENES, TOTAL	6.7	U		6.9	U		6.7	U		6.5	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5303

SAMPLE NUMBER:	CEF-NSH-SS-009-01			CEF-NSH-SS-010-01			CEF-NSH-SS-011-01			CEF-NSH-SS-012-01		
SAMPLE DATE:	11/16/99			11/16/99			11/16/99			11/16/99		
LABORATORY ID:	F5303-1			F5303-2			F5303-3			F5303-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	93.6 %			91.2 %			94.3 %			94.1 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1-METHYLNAPHTHALENE	73	U		72	U		70	U		68	U	
2-METHYLNAPHTHALENE	73	U		72	U		70	U		68	U	
ACENAPHTHENE	115			72	U		70	U		68	U	
ACENAPHTHYLENE	73	U		72	U		70	U		68	U	
ANTHRACENE	73	U		72	U		70	U		68	U	
BENZO(A)ANTHRACENE	62.7			19.8			41.3			41.2		
BENZO(A)PYRENE	91.4			11	U		69			74		
BENZO(B)FLUORANTHENE	59			11	U		53.9			46.3		
BENZO(G,H,I)PERYLENE	54.4			26.7			43			31.2		
BENZO(K)FLUORANTHENE	19.7			11	U		16.4			16.3		
CHRYSENE	71.9			27.4			65.9			55.1		
DIBENZO(A,H)ANTHRACENE	11	U		11	U		10	U		10	U	
FLUORANTHENE	130			83.6			172			155		
FLUORENE	73	U		72	U		70	U		68	U	
INDENO(1,2,3-CD)PYRENE	11	U		11	U		10	U		10	U	
NAPHTHALENE	73	U		72	U		70	U		68	U	
PHENANTHRENE	73	U		72	U		70	U		68	U	
PYRENE	94.4			44.7			83.3			81.5		

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5303

SAMPLE NUMBER:	CEF-NSH-SS-009-01			CEF-NSH-SS-010-01			CEF-NSH-SS-011-01			CEF-NSH-SS-012-01		
SAMPLE DATE:	11/16/99			11/16/99			11/16/99			11/16/99		
LABORATORY ID:	F5303-1			F5303-2			F5303-3			F5303-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	93.6 %			91.2 %			94.3 %			94.1 %		
UNITS:	MG/KG			MG/KG			MG/KG			MG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	89	U		91	U		88	U		88	U	

SAMPLE NUMBER:	CEF-NSH-SS-DUP1-01											
SAMPLE DATE:	11/16/99			/ /			/ /			/ /		
LABORATORY ID:	F5303-5											
QC_TYPE:	NORMAL											
% SOLIDS:	95.6 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/KG											
FIELD DUPLICATE OF:	CEF-NSH-SS-009-01											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2.3	U										
1,1,2,2-TETRACHLOROETHANE	2.3	U										
1,1,2-TRICHLOROETHANE	2.3	U										
1,1-DICHLOROETHANE	2.3	U										
1,1-DICHLOROETHENE	2.3	U										
1,2-DICHLOROETHANE	2.3	U										
1,2-DICHLOROPROPANE	2.3	U										
2-BUTANONE	11	U										
2-HEXANONE	11	U										
4-METHYL-2-PENTANONE	11	U										
ACETONE	57	U										
BENZENE	2.3	U										
BROMODICHLOROMETHANE	2.3	U										
BROMOFORM	2.3	U										
BROMOMETHANE	5.7	U										
CARBON DISULFIDE	5.7	U										
CARBON TETRACHLORIDE	2.3	U										
CHLOROBENZENE	2.3	U										
CHLOROETHANE	5.7	U										
CHLOROFORM	2.3	U										
CHLOROMETHANE	5.7	U										
CIS-1,2-DICHLOROETHENE	2.3	U										
CIS-1,3-DICHLOROPROPENE	2.3	U										
DIBROMOCHLOROMETHANE	2.3	U										
ETHYLBENZENE	2.3	U										
METHYL TERT-BUTYL ETHER	2.3	U										
METHYLENE CHLORIDE	11	U										
STYRENE	2.3	U										
TETRACHLOROETHENE	2.3	U										
TOLUENE	2.3	U										
TRANS-1,2-DICHLOROETHENE	2.3	U										
TRANS-1,3-DICHLOROPROPENE	2.3	U										
TRICHLOROETHENE	2.3	U										
VINYL CHLORIDE	5.7	U										

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5303

SAMPLE NUMBER:	CEF-NSH-SS-DUP1-01											
SAMPLE DATE:	11/16/99			/ /			/ /			/ /		
LABORATORY ID:	F5303-5											
QC_TYPE:	NORMAL											
% SOLIDS:	95.6 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/KG											
FIELD DUPLICATE OF:	CEF-NSH-SS-009-01											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
XYLENES, TOTAL	6.8	U										

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5303

SAMPLE NUMBER:	CEF-NSH-SS-DUP1-01			
SAMPLE DATE:	11/16/99	/ /	/ /	/ /
LABORATORY ID:	F5303-5			
QC_TYPE:	NORMAL			
% SOLIDS:	95.6 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/KG			
FIELD DUPLICATE OF:	CEF-NSH-SS-009-01			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
SEMIVOLATILES												
1-METHYLNAPHTHALENE	68	U										
2-METHYLNAPHTHALENE	136											
ACENAPHTHENE	423											
ACENAPHTHYLENE	68	U										
ANTHRACENE	68	U										
BENZO(A)ANTHRACENE	172											
BENZO(A)PYRENE	323											
BENZO(B)FLUORANTHENE	233											
BENZO(G,H,I)PERYLENE	179											
BENZO(K)FLUORANTHENE	60.2											
CHRYSENE	255											
DIBENZO(A,H)ANTHRACENE	10	U										
FLUORANTHENE	749											
FLUORENE	68	U										
INDENO(1,2,3-CD)PYRENE	10	U										
NAPHTHALENE	68	U										
PHENANTHRENE	247											
PYRENE	380											

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5303

SAMPLE NUMBER:	CEF-NSH-SS-DUP1-01											
SAMPLE DATE:	11/16/99			/ /			/ /			/ /		
LABORATORY ID:	F5303-5											
QC_TYPE:	NORMAL											
% SOLIDS:	95.6 %			100.0 %			100.0 %			100.0 %		
UNITS:	MG/KG											
FIELD DUPLICATE OF:	CEF-NSH-SS-009-01											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	87	U										

Report of Analysis

Client Sample ID:	CEF-NSH-SS-009-01		
Lab Sample ID:	F5303-1	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8260B	**Percent Solids:**	93.6
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005111.D	1	11/23/99	CJP	n/a	n/a	VH11
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	56	ug/kg	
71-43-2	Benzene	ND	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.6	ug/kg	
74-87-3	Methyl chloride	ND	5.6	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
100-42-5	Styrene	ND	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.2	ug/kg	
108-88-3	Toluene	ND	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	ug/kg	
1330-20-7	Xylene (total)	ND	6.7	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates 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:	CEF-NSH-SS-009-01		
Lab Sample ID:	F5303-1	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8260B	**Percent Solids:**	93.6
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		71-122%
2037-26-5	Toluene-D8	100%		73-128%
460-00-4	4-Bromofluorobenzene	104%		53-158%
17060-07-0	1,2-Dichloroethane-D4	116%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-009-01		
Lab Sample ID:	F5303-1	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8310	**Percent Solids:**	93.6
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7304.D	1	12/07/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	115	73	ug/kg	
208-96-8	Acenaphthylene	ND	73	ug/kg	
120-12-7	Anthracene	ND	73	ug/kg	
56-55-3	Benzo (a) anthracene	62.7	11	ug/kg	
50-32-8	Benzo (a) pyrene	91.4	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	59.0	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	54.4	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	19.7	11	ug/kg	
218-01-9	Chrysene	71.9	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	130	11	ug/kg	
86-73-7	Fluorene	ND	73	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	73	ug/kg	
91-57-6	2-Methylnaphthalene	ND	73	ug/kg	
91-20-3	Naphthalene	ND	73	ug/kg	
85-01-8	Phenanthrene	ND	73	ug/kg	
129-00-0	Pyrene	94.4	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-009-01		
Lab Sample ID:	F5303-1	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	FLORIDA-PRO	**Percent Solids:**	93.6
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05842.D	1	11/20/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	89	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

100304

Report of Analysis

Client Sample ID:	CEF-NSH-SS-010-01		
Lab Sample ID:	F5303-2	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8260B	**Percent Solids:**	91.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005112.D	1	11/23/99	CJP	n/a	n/a	VH11
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	58	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.8	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	12	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	12	ug/kg	
74-83-9	Methyl bromide	ND	5.8	ug/kg	
74-87-3	Methyl chloride	ND	5.8	ug/kg	
75-09-2	Methylene chloride	ND	12	ug/kg	
78-93-3	Methyl ethyl ketone	ND	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
100-42-5	Styrene	ND	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	2.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	ug/kg	
1330-20-7	Xylene (total)	ND	6.9	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates 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:	CEF-NSH-SS-010-01		
Lab Sample ID:	F5303-2	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8260B	**Percent Solids:**	91.2
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		71-122%
2037-26-5	Toluene-D8	101%		73-128%
460-00-4	4-Bromofluorobenzene	105%		53-158%
17060-07-0	1,2-Dichloroethane-D4	116%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-010-01		
Lab Sample ID:	F5303-2	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8310	**Percent Solids:**	91.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7305.D	1	12/07/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	72	ug/kg	
208-96-8	Acenaphthylene	ND	72	ug/kg	
120-12-7	Anthracene	ND	72	ug/kg	
56-55-3	Benzo (a) anthracene	19.8	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	26.7	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	27.4	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	83.6	11	ug/kg	
86-73-7	Fluorene	ND	72	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	72	ug/kg	
91-57-6	2-Methylnaphthalene	ND	72	ug/kg	
91-20-3	Naphthalene	ND	72	ug/kg	
85-01-8	Phenanthrene	ND	72	ug/kg	
129-00-0	Pyrene	44.7	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-010-01		
Lab Sample ID:	F5303-2	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	FLORIDA-PRO	**Percent Solids:**	91.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05844.D	1	11/20/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	91	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

C00008

Report of Analysis

Client Sample ID:	CEF-NSH-SS-011-01		
Lab Sample ID:	F5303-3	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8260B	**Percent Solids:**	94.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005113.D	1	11/23/99	CJP	n/a	n/a	VH11
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	56	ug/kg	
71-43-2	Benzene	ND	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.6	ug/kg	
74-87-3	Methyl chloride	ND	5.6	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
100-42-5	Styrene	ND	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.2	ug/kg	
108-88-3	Toluene	ND	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	ug/kg	
1330-20-7	Xylene (total)	ND	6.7	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates 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:	CEF-NSH-SS-011-01		
Lab Sample ID:	F5303-3	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8260B	**Percent Solids:**	94.3
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		71-122%
2037-26-5	Toluene-D8	103%		73-128%
460-00-4	4-Bromofluorobenzene	108%		53-158%
17060-07-0	1,2-Dichloroethane-D4	115%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-011-01		
Lab Sample ID:	F5303-3	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8310	**Percent Solids:**	94.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7306.D	1	12/07/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	70	ug/kg	
208-96-8	Acenaphthylene	ND	70	ug/kg	
120-12-7	Anthracene	ND	70	ug/kg	
56-55-3	Benzo (a) anthracene	41.3	10	ug/kg	
50-32-8	Benzo (a) pyrene	69.0	10	ug/kg	
205-99-2	Benzo (b) fluoranthene	53.9	10	ug/kg	
191-24-2	Benzo (g,h,i) perylene	43.0	10	ug/kg	
207-08-9	Benzo (k) fluoranthene	16.4	10	ug/kg	
218-01-9	Chrysene	65.9	10	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	10	ug/kg	
206-44-0	Fluoranthene	172	10	ug/kg	
86-73-7	Fluorene	ND	70	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	10	ug/kg	
90-12-0	1-Methylnaphthalene	ND	70	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	ug/kg	
91-20-3	Naphthalene	ND	70	ug/kg	
85-01-8	Phenanthrene	ND	70	ug/kg	
129-00-0	Pyrene	83.3	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-011-01		
Lab Sample ID:	F5303-3	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	FLORIDA-PRO	**Percent Solids:**	94.3
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05845.D	1	11/20/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	88	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates 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:	CEF-NSH-SS-012-01		
Lab Sample ID:	F5303-4	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8260B	**Percent Solids:**	94.1
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005114.D	1	11/23/99	CJP	n/a	n/a	VH11
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	54	ug/kg	
71-43-2	Benzene	ND	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	ug/kg	
75-25-2	Bromoform	ND	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.4	ug/kg	
67-66-3	Chloroform	ND	2.2	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	2.2	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	ug/kg	
74-87-3	Methyl chloride	ND	5.4	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.2	ug/kg	
100-42-5	Styrene	ND	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.2	ug/kg	
108-88-3	Toluene	ND	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	ug/kg	
1330-20-7	Xylene (total)	ND	6.5	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates 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:	CEF-NSH-SS-012-01		
Lab Sample ID:	F5303-4	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8260B	**Percent Solids:**	94.1
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		71-122%
2037-26-5	Toluene-D8	102%		73-128%
460-00-4	4-Bromofluorobenzene	111%		53-158%
17060-07-0	1,2-Dichloroethane-D4	114%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-012-01		
Lab Sample ID:	F5303-4	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8310	**Percent Solids:**	94.1
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7307.D	1	12/07/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	68	ug/kg	
208-96-8	Acenaphthylene	ND	68	ug/kg	
120-12-7	Anthracene	ND	68	ug/kg	
56-55-3	Benzo (a) anthracene	41.2	10	ug/kg	
50-32-8	Benzo (a) pyrene	74.0	10	ug/kg	
205-99-2	Benzo (b) fluoranthene	46.3	10	ug/kg	
191-24-2	Benzo (g,h,i) perylene	31.2	10	ug/kg	
207-08-9	Benzo (k) fluoranthene	16.3	10	ug/kg	
218-01-9	Chrysene	55.1	10	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	10	ug/kg	
206-44-0	Fluoranthene	155	10	ug/kg	
86-73-7	Fluorene	ND	68	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	10	ug/kg	
90-12-0	1-Methylnaphthalene	ND	68	ug/kg	
91-57-6	2-Methylnaphthalene	ND	68	ug/kg	
91-20-3	Naphthalene	ND	68	ug/kg	
85-01-8	Phenanthrene	ND	68	ug/kg	
129-00-0	Pyrene	81.5	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-012-01		
Lab Sample ID:	F5303-4	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	FLORIDA-PRO	**Percent Solids:**	94.1
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05846.D	1	11/20/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	88	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates 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:	CEF-NSH-SS-DUP1-01		
Lab Sample ID:	F5303-5	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8260B	**Percent Solids:**	95.6
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005115.D	1	11/23/99	CJP	n/a	n/a	VH11
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	57	ug/kg	
71-43-2	Benzene	ND	2.3	ug/kg	
75-27-4	Bromodichloromethane	ND	2.3	ug/kg	
75-25-2	Bromoform	ND	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	2.3	ug/kg	
75-00-3	Chloroethane	ND	5.7	ug/kg	
67-66-3	Chloroform	ND	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	5.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	2.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	2.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.3	ug/kg	
124-48-1	Dibromochloromethane	ND	2.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.3	ug/kg	
100-41-4	Ethylbenzene	ND	2.3	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.7	ug/kg	
74-87-3	Methyl chloride	ND	5.7	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	2.3	ug/kg	
100-42-5	Styrene	ND	2.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	2.3	ug/kg	
108-88-3	Toluene	ND	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	2.3	ug/kg	
75-01-4	Vinyl chloride	ND	5.7	ug/kg	
1330-20-7	Xylene (total)	ND	6.8	ug/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates 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:	CEF-NSH-SS-DUP1-01		
Lab Sample ID:	F5303-5	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8260B	**Percent Solids:**	95.6
Project:	NAS Cecil Field		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		71-122%
2037-26-5	Toluene-D8	105%		73-128%
460-00-4	4-Bromofluorobenzene	112%		53-158%
17060-07-0	1,2-Dichloroethane-D4	116%		71-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-DUP1-01		
Lab Sample ID:	F5303-5	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	SW846 8310	**Percent Solids:**	95.6
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC7309.D	1	12/07/99	AMA	11/30/99	M:OP1578	M:GLC71
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	423	68	ug/kg	
208-96-8	Acenaphthylene	ND	68	ug/kg	
120-12-7	Anthracene	ND	68	ug/kg	
56-55-3	Benzo (a) anthracene	172	10	ug/kg	
50-32-8	Benzo (a) pyrene	323	10	ug/kg	
205-99-2	Benzo (b) fluoranthene	233	10	ug/kg	
191-24-2	Benzo (g,h,i) perylene	179	10	ug/kg	
207-08-9	Benzo (k) fluoranthene	60.2	10	ug/kg	
218-01-9	Chrysene	255	10	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	10	ug/kg	
206-44-0	Fluoranthene	749	10	ug/kg	
86-73-7	Fluorene	ND	68	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	10	ug/kg	
90-12-0	1-Methylnaphthalene	ND	68	ug/kg	
91-57-6	2-Methylnaphthalene	136	68	ug/kg	
91-20-3	Naphthalene	ND	68	ug/kg	
85-01-8	Phenanthrene	247	68	ug/kg	
129-00-0	Pyrene	380	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-DUP1-01		
Lab Sample ID:	F5303-5	**Date Sampled:**	11/16/99
Matrix:	SO - Soil	**Date Received:**	11/17/99
Method:	FLORIDA-PRO	**Percent Solids:**	95.6
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP05847.D	1	11/20/99	ME	11/18/99	OP1093	GOP282
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	87	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	99%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

PHASE II ANALYTICAL RESULTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. SPERANZA**	**DATE:**	**MARCH 1, 2000**
FROM:	**GRETCHEN PHIPPS**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION – PAHs** **CTO 078 - NAS, CECIL FIELD** **SDG – F5722**		
SAMPLES:	15/Soils/		

CEF-NSH-SS-101-01	CEF-NSH-SS-102-01
CEF-NSH-SS-105-01	CEF-NSH-SS-106-01
CEF-NSH-SS-107-02	CEF-NSH-SS-108-01
CEF-NSH-SS-109-01	CEF-NSH-SS-110-02
CEF-NSH-SS-111-01	CEF-NSH-SS-112-01
CEF-NSH-SS-113-02	CEF-NSH-SS-DU03
CEF-NSH-SU-103-06	CEF-NSH-SU-104-06
CEF-NSH-SU-DU04	

Overview

The sample set for CTO 078, NAS Cecil Field, SDG F5722, consists of fifteen (15) soil environmental samples. Two (2) field duplicate pairs (CEF-NSH-SS-102-01 / CEF-NSH-SS-DU03 and CEF-NSH-SU-104-06 / CEF-NSH-SU-DU04) were included within this SDG.

All samples were analyzed for polynuclear aromatic hydrocarbons (PAHs). The samples were collected by Tetra Tech NUS on January 24, 2000 and analyzed by Accutest Laboratory. PAH analyses were conducted using SW 846 method 8310.

The data was evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Verifications
* • Laboratory Blank Analyses
• Field Duplicate Analyses
* • Detection Limits

* - All quality control criteria were met for this parameter.

Field Duplicate Analyses

Field duplicate imprecision (RPD >50%) was noted for the following compounds in field duplicate pair CEF-NSH-SS-102-01 / CEF-NSH-SS-DU03: 2-methylnaphthalene, anthracene, benzo(a)anthracene, chrysene, dibenzo(a,h)anthracene, fluoranthene, phenanthrene, pyrene and naphthalene. The positive and nondetected results reported for the above listed compounds in the affected field duplicate pair were qualified as estimated, "J" and "UJ", respectively.

Field duplicate imprecision (RPD >50%) was noted for the following compound in field duplicate pair CEF-NSH-SU-104-06 / CEF-NSH-SU-DU04benzo(g,h,i)perylene. The positive and nondetected results reported for the above listed compound in the affected field duplicate pair were qualified as estimated, "J" and "UJ", respectively.

Executive Summary

Laboratory Performance: None.

Other Factors Affecting Data Quality: Field duplicate imprecision was noted for several compounds.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Review", February 1994 and the NFESC document entitles "Navy Installation Restoration Laboratory Quality Assurance Guide." (NFESC 2/96).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Gretchen A. Phipps

Tetra Tech NUS
Gretchen A. Phipps

Tetra Tech NUS
Joseph A. Samchuck
Quality Control Officer

Attachments:

1. Appendix A - Qualified Analytical Data
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCD% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5722

SAMPLE NUMBER:	CEF-NSH-SS-101-01			CEF-NSH-SS-102-01			CEF-NSH-SS-105-01			CEF-NSH-SS-106-01		
SAMPLE DATE:	01/24/00			01/24/00			01/24/00			01/24/00		
LABORATORY ID:	F5722-11			F5722-10			F5722-4			F5722-5		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	87.1 %			91.3 %			89.5 %			86.7 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	76	U		72	U		74	U		76	U	
2-METHYLNAPHTHALENE	76	U		104	J	G	74	U		76	U	
ACENAPHTHENE	111			290			74	U		76	U	
ACENAPHTHYLENE	76	U		72	U		166			76	U	
ANTHRACENE	76	U		92.9	J	G	74	U		76	U	
BENZO(A)ANTHRACENE	362			616	J	G	216			18		
BENZO(A)PYRENE	346			653			92.6			11	U	
BENZO(B)FLUORANTHENE	422			794			301			16.4		
BENZO(G,H,I)PERYLENE	261			628			168			13.8		
BENZO(K)FLUORANTHENE	189			385			140			11	U	
CHRYSENE	425			687	J	G	273			19.7		
DIBENZO(A,H)ANTHRACENE	69.1			231	J	G	15.3			11	U	
FLUORANTHENE	963			1900	J	G	500			77.6		
FLUORENE	76	U		72	U		74	U		76	U	
INDENO(1,2,3-CD)PYRENE	257			633			208			13		
NAPHTHALENE	76	U		72	UJ	G	179			76	U	
PHENANTHRENE	281			446	J	G	218			76	U	
PYRENE	668			1260	J	G	419			21.8		

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5722

SAMPLE NUMBER:	CEF-NSH-SS-107-02			CEF-NSH-SS-108-01			CEF-NSH-SS-109-01			CEF-NSH-SS-110-02		
SAMPLE DATE:	01/24/00			01/24/00			01/24/00			01/24/00		
LABORATORY ID:	F5722-6			F5722-9			F5722-7			F5722-8		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	85.0 %			88.0 %			88.3 %			82.8 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	78	U		75	U		218			80	U	
2-METHYLNAPHTHALENE	78	U		75	U		74	U		129		
ACENAPHTHENE	78	U		75	U		185			100		
ACENAPHTHYLENE	78	U		75	U		218			80	U	
ANTHRACENE	78	U		75	U		74	U		80	U	
BENZO(A)ANTHRACENE	25.5			11	U		473			299		
BENZO(A)PYRENE	12	U		11	U		229			244		
BENZO(B)FLUORANTHENE	35.7			11	U		497			375		
BENZO(G,H,I)PERYLENE	22.1			11	U		258			191		
BENZO(K)FLUORANTHENE	19.8			11	U		247			154		
CHRYSENE	38.1			11	U		558			382		
DIBENZO(A,H)ANTHRACENE	12	U		11	U		27.7			17.2		
FLUORANTHENE	42.2			11	U		964			652		
FLUORENE	78	U		75	U		74	U		80	U	
INDENO(1,2,3-CD)PYRENE	24.4			11	U		338			206		
NAPHTHALENE	78	U		75	U		74	U		80	U	
PHENANTHRENE	78	U		75	U		298			154		
PYRENE	48.9			11	U		978			530		

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5722

SAMPLE NUMBER:	CEF-NSH-SS-111-01			CEF-NSH-SS-112-01			CEF-NSH-SS-113-02			CEF-NSH-SS-DU03		
SAMPLE DATE:	01/24/00			01/24/00			01/24/00			01/24/00		
LABORATORY ID:	F5722-2			F5722-3			F5722-1			F5722-14		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	81.9 %			83.6 %			85.6 %			87.4 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:										CEF-P32-NSH-SS-102-01		
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	80	U		79	U		77	U		75	U	
2-METHYLNAPHTHALENE	80	U		79	U		77	U		878	J	G
ACENAPHTHENE	80	U		79	U		77	U		445		
ACENAPHTHYLENE	80	U		177			77	U		75	U	
ANTHRACENE	80	U		79	U		77	U		214	J	G
BENZO(A)ANTHRACENE	93.8			99.3			26.3			1230	J	G
BENZO(A)PYRENE	67			62.5			24.3			785		
BENZO(B)FLUORANTHENE	147			139			32.4			1320		
BENZO(G,H,I)PERYLENE	132			104			33.7			762		
BENZO(K)FLUORANTHENE	70.4			70.6			18.2			576		
CHRYSENE	107			135			26			1270	J	G
DIBENZO(A,H)ANTHRACENE	12	U		13.9			12	U		57.7	J	G
FLUORANTHENE	158			186			33.5			4030	J	G
FLUORENE	80	U		79	U		77	U		75	U	
INDENO(1,2,3-CD)PYRENE	149			94.1			44.8			797		
NAPHTHALENE	80	U		79	U		77	U		113	J	G
PHENANTHRENE	80	U		79	U		77	U		1150	J	G
PYRENE	145			169			35.7			2650	J	G

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F5722

SAMPLE NUMBER:	CEF-NSH-SU-103-06	CEF-NSH-SU-104-06	CEF-NSH-SU-DU04	
SAMPLE DATE:	01/24/00	01/24/00	01/24/00	/ /
LABORATORY ID:	F5722-13	F5722-12	F5722-15	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	81.2 %	88.6 %	81.1 %	100.0 %
UNITS:	UG/KG	UG/KG	UG/KG	
FIELD DUPLICATE OF:			CEF-NSH-SU-104-06	

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	81	U		75	U		81	U				
2-METHYLNAPHTHALENE	81	U		75	U		81	U				
ACENAPHTHENE	81	U		75	U		81	U				
ACENAPHTHYLENE	81	U		75	U		81	U				
ANTHRACENE	81	U		75	U		81	U				
BENZO(A)ANTHRACENE	12	U		11	U		12	U				
BENZO(A)PYRENE	12	U		11	U		12	U				
BENZO(B)FLUORANTHENE	12	U		11	U		12	U				
BENZO(G,H,I)PERYLENE	12	U		47.3	J	G	12	UJ	G			
BENZO(K)FLUORANTHENE	12	U		11	U		12	U				
CHRYSENE	12	U		11	U		12	U				
DIBENZO(A,H)ANTHRACENE	12	U		11	U		12	U				
FLUORANTHENE	12	U		11	U		12	U				
FLUORENE	81	U		75	U		81	U				
INDENO(1,2,3-CD)PYRENE	12	U		11	U		12	U				
NAPHTHALENE	81	U		75	U		81	U				
PHENANTHRENE	81	U		75	U		81	U				
PYRENE	12	U		11	U		12	U				

ACCUTEST

Report of Analysis

Client Sample ID: CEF-NSH-SS-101-01
Lab Sample ID: F5722-11
Matrix: SO - Soil
Method: SW846 8310
Project: NAS Cecil Field PO#N0039-P98655A-01

Date Sampled: 01/24/00
Date Received: 01/25/00
Percent Solids: 87.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8511.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	111	76	ug/kg	
208-96-8	Acenaphthylene	ND	76	ug/kg	
120-12-7	Anthracene	ND	76	ug/kg	
56-55-3	Benzo (a) anthracene	362	11	ug/kg	
50-32-8	Benzo (a) pyrene	346	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	422	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	261	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	189	11	ug/kg	
218-01-9	Chrysene	425	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	69.1	11	ug/kg	
206-44-0	Fluoranthene	963	11	ug/kg	
86-73-7	Fluorene	ND	76	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	257	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	76	ug/kg	
91-20-3	Naphthalene	ND	76	ug/kg	
85-01-8	Phenanthrene	281	76	ug/kg	
129-00-0	Pyrene	668	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	57%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID: CEF-NSH-SS-102-01
Lab Sample ID: F5722-10
Matrix: SO - Soil
Method: SW846 8310
Project: NAS Cecil Field PO#N0039-P98655A-01

Date Sampled: 01/24/00
Date Received: 01/25/00
Percent Solids: 91.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8510.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	290	72	ug/kg	
208-96-8	Acenaphthylene	ND	72	ug/kg	
120-12-7	Anthracene	92.9	72	ug/kg	
56-55-3	Benzo (a) anthracene	616	11	ug/kg	
50-32-8	Benzo (a) pyrene	653	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	794	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	628	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	385	11	ug/kg	
218-01-9	Chrysene	687	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	231	11	ug/kg	
206-44-0	Fluoranthene	1900	11	ug/kg	
86-73-7	Fluorene	ND	72	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	633	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	72	ug/kg	
91-57-6	2-Methylnaphthalene	104	72	ug/kg	
91-20-3	Naphthalene	ND	72	ug/kg	
85-01-8	Phenanthrene	446	72	ug/kg	
129-00-0	Pyrene	1260	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID: CEF-NSH-SS-105-01
Lab Sample ID: F5722-4
Matrix: SO - Soil
Method: SW846 8310
Project: NAS Cecil Field PO#N0039-P98655A-01

Date Sampled: 01/24/00
Date Received: 01/25/00
Percent Solids: 89.5

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8501.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	74	ug/kg	
208-96-8	Acenaphthylene	166	74	ug/kg	
120-12-7	Anthracene	ND	74	ug/kg	
56-55-3	Benzo (a) anthracene	216	11	ug/kg	
50-32-8	Benzo (a) pyrene	92.6	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	301	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	168	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	140	11	ug/kg	
218-01-9	Chrysene	273	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	15.3	11	ug/kg	
206-44-0	Fluoranthene	500	11	ug/kg	
86-73-7	Fluorene	ND	74	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	208	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	74	ug/kg	
91-57-6	2-Methylnaphthalene	ND	74	ug/kg	
91-20-3	Naphthalene	179	74	ug/kg	
85-01-8	Phenanthrene	218	74	ug/kg	
129-00-0	Pyrene	419	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-106-01		
Lab Sample ID:	F5722-5	**Date Sampled:**	01/24/00
Matrix:	SO - Soil	**Date Received:**	01/25/00
Method:	SW846 8310	**Percent Solids:**	86.7
Project:	NAS Cecil Field PO#N0039-P98655A-01		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8502.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	76	ug/kg	
208-96-8	Acenaphthylene	ND	76	ug/kg	
120-12-7	Anthracene	ND	76	ug/kg	
56-55-3	Benzo (a) anthracene	18.0	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	16.4	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	13.8	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	19.7	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	77.6	11	ug/kg	
86-73-7	Fluorene	ND	76	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	13.0	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	76	ug/kg	
91-57-6	2-Methylnaphthalene	ND	76	ug/kg	
91-20-3	Naphthalene	ND	76	ug/kg	
85-01-8	Phenanthrene	ND	76	ug/kg	
129-00-0	Pyrene	21.8	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	44%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID: CEF-NSH-SS-107-02
Lab Sample ID: F5722-6
Matrix: SO - Soil
Method: SW846 8310
Project: NAS Cecil Field PO#N0039-P98655A-01

Date Sampled: 01/24/00
Date Received: 01/25/00
Percent Solids: 85.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8503.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	78	ug/kg	
208-96-8	Acenaphthylene	ND	78	ug/kg	
120-12-7	Anthracene	ND	78	ug/kg	
56-55-3	Benzo (a) anthracene	25.5	12	ug/kg	
50-32-8	Benzo (a) pyrene	ND	12	ug/kg	
205-99-2	Benzo (b) fluoranthene	35.7	12	ug/kg	
191-24-2	Benzo (g,h,i) perylene	22.1	12	ug/kg	
207-08-9	Benzo (k) fluoranthene	19.8	12	ug/kg	
218-01-9	Chrysene	38.1	12	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	12	ug/kg	
206-44-0	Fluoranthene	42.2	12	ug/kg	
86-73-7	Fluorene	ND	78	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	24.4	12	ug/kg	
90-12-0	1-Methylnaphthalene	ND	78	ug/kg	
91-57-6	2-Methylnaphthalene	ND	78	ug/kg	
91-20-3	Naphthalene	ND	78	ug/kg	
85-01-8	Phenanthrene	ND	78	ug/kg	
129-00-0	Pyrene	48.9	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	36%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-108-01		
Lab Sample ID:	F5722-9	**Date Sampled:**	01/24/00
Matrix:	SO - Soil	**Date Received:**	01/25/00
Method:	SW846 8310	**Percent Solids:**	88.0
Project:	NAS Cecil Field PO#N0039-P98655A-01		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8509.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	75	ug/kg	
208-96-8	Acenaphthylene	ND	75	ug/kg	
120-12-7	Anthracene	ND	75	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	75	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	75	ug/kg	
91-57-6	2-Methylnaphthalene	ND	75	ug/kg	
91-20-3	Naphthalene	ND	75	ug/kg	
85-01-8	Phenanthrene	ND	75	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	47%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-109-01		
Lab Sample ID:	F5722-7		
Matrix:	SO - Soil	**Date Sampled:**	01/24/00
Method:	SW846 8310	**Date Received:**	01/25/00
Project:	NAS Cecil Field PO#N0039-P98655A-01	**Percent Solids:**	88.3

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8504.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	185	74	ug/kg	
208-96-8	Acenaphthylene	218	74	ug/kg	
120-12-7	Anthracene	ND	74	ug/kg	
56-55-3	Benzo (a) anthracene	473	11	ug/kg	
50-32-8	Benzo (a) pyrene	229	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	497	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	258	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	247	11	ug/kg	
218-01-9	Chrysene	558	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	27.7	11	ug/kg	
206-44-0	Fluoranthene	964	11	ug/kg	
86-73-7	Fluorene	ND	74	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	338	11	ug/kg	
90-12-0	1-Methylnaphthalene	218	74	ug/kg	
91-57-6	2-Methylnaphthalene	ND	74	ug/kg	
91-20-3	Naphthalene	ND	74	ug/kg	
85-01-8	Phenanthrene	298	74	ug/kg	
129-00-0	Pyrene	978	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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ACCUTEST

Report of Analysis

Client Sample ID: CEF-NSH-SS-110-02
Lab Sample ID: F5722-8
Matrix: SO - Soil
Method: SW846 8310
Project: NAS Cecil Field PO#N0039-P98655A-01

Date Sampled: 01/24/00
Date Received: 01/25/00
Percent Solids: 82.8

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8508.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	100	80	ug/kg	
208-96-8	Acenaphthylene	ND	80	ug/kg	
120-12-7	Anthracene	ND	80	ug/kg	
56-55-3	Benzo (a) anthracene	299	12	ug/kg	
50-32-8	Benzo (a) pyrene	244	12	ug/kg	
205-99-2	Benzo (b) fluoranthene	375	12	ug/kg	
191-24-2	Benzo (g,h,i) perylene	191	12	ug/kg	
207-08-9	Benzo (k) fluoranthene	154	12	ug/kg	
218-01-9	Chrysene	382	12	ug/kg	
53-70-3	Dibenz(a,h)anthracene	17.2	12	ug/kg	
206-44-0	Fluoranthene	652	12	ug/kg	
86-73-7	Fluorene	ND	80	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	206	12	ug/kg	
90-12-0	1-Methylnaphthalene	ND	80	ug/kg	
91-57-6	2-Methylnaphthalene	129	80	ug/kg	
91-20-3	Naphthalene	ND	80	ug/kg	
85-01-8	Phenanthrene	154	80	ug/kg	
129-00-0	Pyrene	530	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	34%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID: CEF-NSH-SS-111-01
Lab Sample ID: F5722-2
Matrix: SO - Soil
Method: SW846 8310
Project: NAS Cecil Field PO#N0039-P98655A-01

Date Sampled: 01/24/00
Date Received: 01/25/00
Percent Solids: 81.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8499.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	80	ug/kg	
208-96-8	Acenaphthylene	ND	80	ug/kg	
120-12-7	Anthracene	ND	80	ug/kg	
56-55-3	Benzo (a) anthracene	93.8	12	ug/kg	
50-32-8	Benzo (a) pyrene	67.0	12	ug/kg	
205-99-2	Benzo (b) fluoranthene	147	12	ug/kg	
191-24-2	Benzo (g,h,i) perylene	132	12	ug/kg	
207-08-9	Benzo (k) fluoranthene	70.4	12	ug/kg	
218-01-9	Chrysene	107	12	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	12	ug/kg	
206-44-0	Fluoranthene	158	12	ug/kg	
86-73-7	Fluorene	ND	80	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	149	12	ug/kg	
90-12-0	1-Methylnaphthalene	ND	80	ug/kg	
91-57-6	2-Methylnaphthalene	ND	80	ug/kg	
91-20-3	Naphthalene	ND	80	ug/kg	
85-01-8	Phenanthrene	ND	80	ug/kg	
129-00-0	Pyrene	145	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	39%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID: CEF-NSH-SS-112-01
Lab Sample ID: F5722-3
Matrix: SO - Soil
Method: SW846 8310
Project: NAS Cecil Field PO#N0039-P98655A-01

Date Sampled: 01/24/00
Date Received: 01/25/00
Percent Solids: 83.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8500.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	79	ug/kg	
208-96-8	Acenaphthylene	177	79	ug/kg	
120-12-7	Anthracene	ND	79	ug/kg	
56-55-3	Benzo (a) anthracene	99.3	12	ug/kg	
50-32-8	Benzo (a) pyrene	62.5	12	ug/kg	
205-99-2	Benzo (b) fluoranthene	139	12	ug/kg	
191-24-2	Benzo (g,h,i) perylene	104	12	ug/kg	
207-08-9	Benzo (k) fluoranthene	70.6	12	ug/kg	
218-01-9	Chrysene	135	12	ug/kg	
53-70-3	Dibenz(a,h)anthracene	13.9	12	ug/kg	
206-44-0	Fluoranthene	186	12	ug/kg	
86-73-7	Fluorene	ND	79	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	94.1	12	ug/kg	
90-12-0	1-Methylnaphthalene	ND	79	ug/kg	
91-57-6	2-Methylnaphthalene	ND	79	ug/kg	
91-20-3	Naphthalene	ND	79	ug/kg	
85-01-8	Phenanthrene	ND	79	ug/kg	
129-00-0	Pyrene	169	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID: CEF-NSH-SS-113-02
Lab Sample ID: F5722-1
Matrix: SO - Soil
Method: SW846 8310
Project: NAS Cecil Field PO#N0039-P98655A-01

Date Sampled: 01/24/00
Date Received: 01/25/00
Percent Solids: 85.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8498.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	77	ug/kg	
208-96-8	Acenaphthylene	ND	77	ug/kg	
120-12-7	Anthracene	ND	77	ug/kg	
56-55-3	Benzo (a) anthracene	26.3	12	ug/kg	
50-32-8	Benzo (a) pyrene	24.3	12	ug/kg	
205-99-2	Benzo (b) fluoranthene	32.4	12	ug/kg	
191-24-2	Benzo (g,h,i) perylene	33.7	12	ug/kg	
207-08-9	Benzo (k) fluoranthene	18.2	12	ug/kg	
218-01-9	Chrysene	26.0	12	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	12	ug/kg	
206-44-0	Fluoranthene	33.5	12	ug/kg	
86-73-7	Fluorene	ND	77	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	44.8	12	ug/kg	
90-12-0	1-Methylnaphthalene	ND	77	ug/kg	
91-57-6	2-Methylnaphthalene	ND	77	ug/kg	
91-20-3	Naphthalene	ND	77	ug/kg	
85-01-8	Phenanthrene	ND	77	ug/kg	
129-00-0	Pyrene	35.7	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID: CEF-NSH-SS-DU03
Lab Sample ID: F5722-14
Matrix: SO - Soil
Method: SW846 8310
Project: NAS Cecil Field PO#N0039-P98655A-01

Date Sampled: 01/24/00
Date Received: 01/25/00
Percent Solids: 87.4

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8514.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	445	75	ug/kg	
208-96-8	Acenaphthylene	ND	75	ug/kg	
120-12-7	Anthracene	214	75	ug/kg	
56-55-3	Benzo (a) anthracene	1230	11	ug/kg	
50-32-8	Benzo (a) pyrene	785	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	1320	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	762	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	576	11	ug/kg	
218-01-9	Chrysene	1270	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	57.7	11	ug/kg	
206-44-0	Fluoranthene	4030	11	ug/kg	
86-73-7	Fluorene	ND	75	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	797	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	75	ug/kg	
91-57-6	2-Methylnaphthalene	878	75	ug/kg	
91-20-3	Naphthalene	113	75	ug/kg	
85-01-8	Phenanthrene	1150	75	ug/kg	
129-00-0	Pyrene	2650	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-103-06		
Lab Sample ID:	F5722-13	**Date Sampled:**	01/24/00
Matrix:	SO - Soil	**Date Received:**	01/25/00
Method:	SW846 8310	**Percent Solids:**	81.2
Project:	NAS Cecil Field PO#N0039-P98655A-01		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8513.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	81	ug/kg	
208-96-8	Acenaphthylene	ND	81	ug/kg	
120-12-7	Anthracene	ND	81	ug/kg	
56-55-3	Benzo (a) anthracene	ND	12	ug/kg	
50-32-8	Benzo (a) pyrene	ND	12	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	12	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	12	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	12	ug/kg	
218-01-9	Chrysene	ND	12	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	12	ug/kg	
206-44-0	Fluoranthene	ND	12	ug/kg	
86-73-7	Fluorene	ND	81	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	12	ug/kg	
90-12-0	1-Methylnaphthalene	ND	81	ug/kg	
91-57-6	2-Methylnaphthalene	ND	81	ug/kg	
91-20-3	Naphthalene	ND	81	ug/kg	
85-01-8	Phenanthrene	ND	81	ug/kg	
129-00-0	Pyrene	ND	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	57%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-104-06		
Lab Sample ID:	F5722-12		
Matrix:	SO - Soil	**Date Sampled:**	01/24/00
Method:	SW846 8310	**Date Received:**	01/25/00
Project:	NAS Cecil Field PO#N0039-P98655A-01	**Percent Solids:**	88.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8512.D	1	02/09/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	75	ug/kg	
208-96-8	Acenaphthylene	ND	75	ug/kg	
120-12-7	Anthracene	ND	75	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	47.3	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	75	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	75	ug/kg	
91-57-6	2-Methylnaphthalene	ND	75	ug/kg	
91-20-3	Naphthalene	ND	75	ug/kg	
85-01-8	Phenanthrene	ND	75	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-DU04		
Lab Sample ID:	F5722-15	**Date Sampled:**	01/24/00
Matrix:	SO - Soil	**Date Received:**	01/25/00
Method:	SW846 8310	**Percent Solids:**	81.1
Project:	NAS Cecil Field PO#N0039-P98655A-01		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8515.D	1	02/10/00	AMA	02/05/00	M:OP1721	M:GLC101
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	81	ug/kg	
208-96-8	Acenaphthylene	ND	81	ug/kg	
120-12-7	Anthracene	ND	81	ug/kg	
56-55-3	Benzo (a) anthracene	ND	12	ug/kg	
50-32-8	Benzo (a) pyrene	ND	12	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	12	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	12	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	12	ug/kg	
218-01-9	Chrysene	ND	12	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	12	ug/kg	
206-44-0	Fluoranthene	ND	12	ug/kg	
86-73-7	Fluorene	ND	81	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	12	ug/kg	
90-12-0	1-Methylnaphthalene	ND	81	ug/kg	
91-57-6	2-Methylnaphthalene	ND	81	ug/kg	
91-20-3	Naphthalene	ND	81	ug/kg	
85-01-8	Phenanthrene	ND	81	ug/kg	
129-00-0	Pyrene	ND	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

PHASE III ANALYTICAL RESULTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

PITT-04-0-051

TO: MARK SPERANZA **DATE:** MAY 15, 2000

FROM: JUSTIN ORBICH **CC:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION – PAH
CTO 078 – NAS CECIL FIELD
SDG F6014

SAMPLES: 8/Soil

CEF-NSH-SS-201-01	CEF-NSH-SS-202-01
CEF-NSH-SS-203-01	CEF-NSH-SS-204-01
CEF-NSH-SS-205-01	CEF-NSH-SS-DU05
CEF-NSH-SS-206-03	CEF-NSH-SU-207-03

OVERVIEW

The sample set for CTO 078, SDG F6014 Naval Air Station (NAS) Cecil Field; Florida consists of eight (8) soil environmental samples. The sample was analyzed for Target Compound List (TCL) Polynuclear Aromatic Hydrocarbon (PAH) plus 1-methylnaphthalene and 2-methylnaphthalene organic compounds. One (1) field duplicate pair (CEF-NSH-SS-204-01/CEF-NSH-SS-DU05) was included within this SDG.

The samples were collected by Tetra Tech, NUS on March 7th, 2000 and analyzed by Accutest Laboratories. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW 846 Method 8310 analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

- * Data Completeness
- * Holding Times
- * Initial/continuing calibrations
- * Laboratory method/field quality control blank results
- Field Duplicate Results
- * Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified analytical results are presented in Appendix A.

PAH FRACTION

It should be noted that all the samples were analyzed at a 5X dilution thus causing elevated reporting limits.

The field duplicate pair (CEF-P32-SS-501-01/CEF-P32-SS-DU06) Relative Percent Differences (RPDs) exceeded the 50% quality control limits for several compounds. The positive and nondetected results were qualified as estimated (J) and (UJ).

EXECUTIVE SUMMARY

Laboratory performance: None.

Other Factors Affecting Data Quality: All samples were analyzed at a dilution. The field duplicate pair RPDs exceeded the quality control limits for several compounds.

MEMO TO: MARK SPERANZA
DATE: MAY 15, 2000 – PAGE 3

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October, 1999), and the NFESC guidelines "Navy Installation Restoration Program Laboratory Quality Assurance Guide" (February, 1996). The text of this report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Justin Orbich

Chemist/Data Validator
Tetra Tech, NUS

Joseph A. Samchuck

Data Validation Quality Assurance Officer
Tetra Tech, NUS

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCB D% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = % Solid content is less than 30%

DATA QUALIFIER DEFINITIONS:

U	-	Value is a nondetected result as reported by the laboratory and should not be considered present.
J	-	Positive result is estimated as a result of a value below the CRQL or a technical noncompliance.
UJ	-	Nondetected result is considered to be estimated as a result of technical noncompliances.

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F6014

SAMPLE NUMBER:	CEF-NSH-SS-201-01			CEF-NSH-SS-202-01			CEF-NSH-SS-203-01			CEF-NSH-SS-204-01		
SAMPLE DATE:	03/07/00			03/07/00			03/07/00			03/07/00		
LABORATORY ID:	F6014-7			F6014-6			F6014-5			F6014-2		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	93.0 %			81.1 %			96.9 %			73.0 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	360	U		200	U		170	U		360	J	G
2-METHYLNAPHTHALENE	360	U		200	U		170	U		390	J	G
ACENAPHTHENE	360	U		200	U		170	U		378	J	G
ACENAPHTHYLENE	360	U		200	U		170	U		619	J	G
ANTHRACENE	360	U		200	U		170	U		230	U	
BENZO(A)ANTHRACENE	88.8			166			26	U		899	J	G
BENZO(A)PYRENE	54	U		81.1			26	U		292	J	G
BENZO(B)FLUORANTHENE	128			213			26	U		935	J	G
BENZO(G,H,I)PERYLENE	96.6			140			26	U		536	J	G
BENZO(K)FLUORANTHENE	65.7			100			26	U		446	J	G
CHRYSENE	136			221			26	U		1180	J	G
DIBENZO(A,H)ANTHRACENE	54	U		31	U		26	U		47.5	J	G
FLUORANTHENE	330			600			26	U		3050	J	G
FLUORENE	360	U		200	U		170	U		230	U	
INDENO(1,2,3-CD)PYRENE	130			141			26	U		586	J	G
NAPHTHALENE	360	U		200	U		170	U		769	J	G
PHENANTHRENE	360	U		200	U		170	U		1570	J	G
PYRENE	203			357			26	U		2370	J	G

CTO078 - NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F6014

SAMPLE NUMBER:	CEF-NSH-SS-205-01			CEF-NSH-SS-DU05			CEF-NSH-SU-206-03			CEF-NSH-SU-207-03		
SAMPLE DATE:	03/07/00			03/07/00			03/07/00			03/07/00		
LABORATORY ID:	F6014-3			F6014-8			F6014-1			F6014-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	76.1 %			92.8 %			78.8 %			86.8 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:				CEF-NSH-SS-204-01								
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	220	U		180	UJ	G	210	U		190	U	
2-METHYLNAPHTHALENE	220	U		180	UJ	G	210	U		190	U	
ACENAPHTHENE	220	U		180	UJ	G	210	U		190	U	
ACENAPHTHYLENE	250			180	UJ	G	210	U		190	U	
ANTHRACENE	220	U		180	U		210	U		190	U	
BENZO(A)ANTHRACENE	168			85.3	J	G	32	U		29	U	
BENZO(A)PYRENE	54			28.8	J	G	32	U		29	U	
BENZO(B)FLUORANTHENE	226			106	J	G	32	U		29	U	
BENZO(G,H,I)PERYLENE	146			79.5	J	G	135			29	U	
BENZO(K)FLUORANTHENE	109			61.3	J	G	32	U		29	U	
CHRYSENE	224			110	J	G	32	U		29	U	
DIBENZO(A,H)ANTHRACENE	50.5			27	UJ	G	32	U		29	U	
FLUORANTHENE	529			289	J	G	32	U		29	U	
FLUORENE	220	U		180	U		210	U		190	U	
INDENO(1,2,3-CD)PYRENE	144			76.3	J	G	32	U		29	U	
NAPHTHALENE	220	U		180	UJ	G	210	U		190	U	
PHENANTHRENE	220	U		180	UJ	G	210	U		190	U	
PYRENE	386			181	J	G	36.1			29	U	

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-201-01		
Lab Sample ID:	F6014-7	**Date Sampled:**	03/07/00
Matrix:	SO - Soil	**Date Received:**	03/08/00
Method:	SW846 8310	**Percent Solids:**	93.0
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC9142.D	5	03/19/00	AMA	03/09/00	M:OP1816	M:GLC124
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	360	ug/kg	
208-96-8	Acenaphthylene	ND	360	ug/kg	
120-12-7	Anthracene	ND	360	ug/kg	
56-55-3	Benzo (a) anthracene	88.8	54	ug/kg	
50-32-8	Benzo (a) pyrene	ND	54	ug/kg	
205-99-2	Benzo (b) fluoranthene	128	54	ug/kg	
191-24-2	Benzo (g,h,i) perylene	96.6	54	ug/kg	
207-08-9	Benzo (k) fluoranthene	65.7	54	ug/kg	
218-01-9	Chrysene	136	54	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	54	ug/kg	
206-44-0	Fluoranthene	330	54	ug/kg	
86-73-7	Fluorene	ND	360	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	130	54	ug/kg	
90-12-0	1-Methylnaphthalene	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	ND	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
85-01-8	Phenanthrene	ND	360	ug/kg	
129-00-0	Pyrene	203	54	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	36%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000053

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-202-01		
Lab Sample ID:	F6014-6	**Date Sampled:**	03/07/00
Matrix:	SO - Soil	**Date Received:**	03/08/00
Method:	SW846 8310	**Percent Solids:**	81.1
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC9141.D	5	03/19/00	AMA	03/09/00	M:OP1816	M:GLC124
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	200	ug/kg	
208-96-8	Acenaphthylene	ND	200	ug/kg	
120-12-7	Anthracene	ND	200	ug/kg	
56-55-3	Benzo (a) anthracene	166	31	ug/kg	
50-32-8	Benzo (a) pyrene [a]	81.1	31	ug/kg	
205-99-2	Benzo (b) fluoranthene	213	31	ug/kg	
191-24-2	Benzo (g,h,i) perylene	140	31	ug/kg	
207-08-9	Benzo (k) fluoranthene	100	31	ug/kg	
218-01-9	Chrysene	221	31	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	31	ug/kg	
206-44-0	Fluoranthene	600	31	ug/kg	
86-73-7	Fluorene	ND	200	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	141	31	ug/kg	
90-12-0	1-Methylnaphthalene	ND	200	ug/kg	
91-57-6	2-Methylnaphthalene	ND	200	ug/kg	
91-20-3	Naphthalene	ND	200	ug/kg	
85-01-8	Phenanthrene	ND	200	ug/kg	
129-00-0	Pyrene	357	31	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		20-130%

(a) Estimated value due to check standard >15% difference.

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

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-203-01		
Lab Sample ID:	F6014-5	**Date Sampled:**	03/07/00
Matrix:	SO - Soil	**Date Received:**	03/08/00
Method:	SW846 8310	**Percent Solids:**	96.9
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC9140.D	5	03/19/00	AMA	03/09/00	M:OP1816	M:GLC124
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	170	ug/kg	
208-96-8	Acenaphthylene	ND	170	ug/kg	
120-12-7	Anthracene	ND	170	ug/kg	
56-55-3	Benzo (a) anthracene	ND	26	ug/kg	
50-32-8	Benzo (a) pyrene	ND	26	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	26	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	26	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	26	ug/kg	
218-01-9	Chrysene	ND	26	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	26	ug/kg	
206-44-0	Fluoranthene	ND	26	ug/kg	
86-73-7	Fluorene	ND	170	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	26	ug/kg	
90-12-0	1-Methylnaphthalene	ND	170	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	ug/kg	
91-20-3	Naphthalene	ND	170	ug/kg	
85-01-8	Phenanthrene	ND	170	ug/kg	
129-00-0	Pyrene	ND	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SS-204-01		
Lab Sample ID:	F6014-2	**Date Sampled:**	03/07/00
Matrix:	SO - Soil	**Date Received:**	03/08/00
Method:	SW846 8310	**Percent Solids:**	73.0
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC9137.D	5	03/19/00	AMA	03/09/00	M:OP1816	M:GLC124
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	378	230	ug/kg	
208-96-8	Acenaphthylene	619	230	ug/kg	
120-12-7	Anthracene	ND	230	ug/kg	
56-55-3	Benzo (a) anthracene	899	34	ug/kg	
50-32-8	Benzo (a) pyrene [a]	292	34	ug/kg	
205-99-2	Benzo (b) fluoranthene	935	34	ug/kg	
191-24-2	Benzo (g,h,i) perylene	536	34	ug/kg	
207-08-9	Benzo (k) fluoranthene	446	34	ug/kg	
218-01-9	Chrysene	1180	34	ug/kg	
53-70-3	Dibenz(a,h)anthracene	47.5	34	ug/kg	
206-44-0	Fluoranthene	3050	34	ug/kg	
86-73-7	Fluorene	ND	230	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	586	34	ug/kg	
90-12-0	1-Methylnaphthalene	360	230	ug/kg	
91-57-6	2-Methylnaphthalene	390	230	ug/kg	
91-20-3	Naphthalene	769	230	ug/kg	
85-01-8	Phenanthrene	1570	230	ug/kg	
129-00-0	Pyrene	2370	34	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		20-130%

(a) Estimated value due to check standard >15% difference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-205-01		
Lab Sample ID:	F6014-3	**Date Sampled:**	03/07/00
Matrix:	SO - Soil	**Date Received:**	03/08/00
Method:	SW846 8310	**Percent Solids:**	76.1
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC9138.D	5	03/19/00	AMA	03/09/00	M:OP1816	M:GLC124
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	220	ug/kg	
208-96-8	Acenaphthylene	250	220	ug/kg	
120-12-7	Anthracene	ND	220	ug/kg	
56-55-3	Benzo (a) anthracene	168	33	ug/kg	
50-32-8	Benzo (a) pyrene [a]	54.0	33	ug/kg	
205-99-2	Benzo (b) fluoranthene	226	33	ug/kg	
191-24-2	Benzo (g,h,i) perylene	146	33	ug/kg	
207-08-9	Benzo (k) fluoranthene	109	33	ug/kg	
218-01-9	Chrysene	224	33	ug/kg	
53-70-3	Dibenz(a,h)anthracene	50.5	33	ug/kg	
206-44-0	Fluoranthene	529	33	ug/kg	
86-73-7	Fluorene	ND	220	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	144	33	ug/kg	
90-12-0	1-Methylnaphthalene	ND	220	ug/kg	
91-57-6	2-Methylnaphthalene	ND	220	ug/kg	
91-20-3	Naphthalene	ND	220	ug/kg	
85-01-8	Phenanthrene	ND	220	ug/kg	
129-00-0	Pyrene	386	33	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		20-130%

(a) Estimated value due to check standard >15% difference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-NSH-SS-DU05		
Lab Sample ID:	F6014-8	**Date Sampled:**	03/07/00
Matrix:	SO - Soil	**Date Received:**	03/08/00
Method:	SW846 8310	**Percent Solids:**	92.8
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC9143.D	5	03/19/00	AMA	03/09/00	M:OP1816	M:GLC124
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	180	ug/kg	
208-96-8	Acenaphthylene	ND	180	ug/kg	
120-12-7	Anthracene	ND	180	ug/kg	
56-55-3	Benzo (a) anthracene	85.3	27	ug/kg	
50-32-8	Benzo (a) pyrene [a]	28.8	27	ug/kg	
205-99-2	Benzo (b) fluoranthene	106	27	ug/kg	
191-24-2	Benzo (g,h,i) perylene	79.5	27	ug/kg	
207-08-9	Benzo (k) fluoranthene	61.3	27	ug/kg	
218-01-9	Chrysene	110	27	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	27	ug/kg	
206-44-0	Fluoranthene	289	27	ug/kg	
86-73-7	Fluorene	ND	180	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	76.3	27	ug/kg	
90-12-0	1-Methylnaphthalene	ND	180	ug/kg	
91-57-6	2-Methylnaphthalene	ND	180	ug/kg	
91-20-3	Naphthalene	ND	180	ug/kg	
85-01-8	Phenanthrene	ND	180	ug/kg	
129-00-0	Pyrene	181	27	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		20-130%

(a) Estimated value due to check standard >15% difference.

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

000013

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-206-03		
Lab Sample ID:	F6014-1	**Date Sampled:**	03/07/00
Matrix:	SO - Soil	**Date Received:**	03/08/00
Method:	SW846 8310	**Percent Solids:**	78.8
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC9136.D	5	03/19/00	AMA	03/09/00	M:OP1816	M:GLC124
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	210	ug/kg	
208-96-8	Acenaphthylene	ND	210	ug/kg	
120-12-7	Anthracene	ND	210	ug/kg	
56-55-3	Benzo (a) anthracene	ND	32	ug/kg	
50-32-8	Benzo (a) pyrene	ND	32	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	32	ug/kg	
191-24-2	Benzo (g,h,i) perylene	135	32	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	32	ug/kg	
218-01-9	Chrysene	ND	32	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	32	ug/kg	
206-44-0	Fluoranthene	ND	32	ug/kg	
86-73-7	Fluorene	ND	210	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	32	ug/kg	
90-12-0	1-Methylnaphthalene	ND	210	ug/kg	
91-57-6	2-Methylnaphthalene	ND	210	ug/kg	
91-20-3	Naphthalene	ND	210	ug/kg	
85-01-8	Phenanthrene	ND	210	ug/kg	
129-00-0	Pyrene	36.1	32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000003

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-NSH-SU-207-03		
Lab Sample ID:	F6014-4	**Date Sampled:**	03/07/00
Matrix:	SO - Soil	**Date Received:**	03/08/00
Method:	SW846 8310	**Percent Solids:**	86.8
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC9139.D	5	03/19/00	AMA	03/09/00	M:OP1816	M:GLC124
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	190	ug/kg	
208-96-8	Acenaphthylene	ND	190	ug/kg	
120-12-7	Anthracene	ND	190	ug/kg	
56-55-3	Benzo (a) anthracene	ND	29	ug/kg	
50-32-8	Benzo (a) pyrene	ND	29	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	29	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	29	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	29	ug/kg	
218-01-9	Chrysene	ND	29	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	29	ug/kg	
206-44-0	Fluoranthene	ND	29	ug/kg	
86-73-7	Fluorene	ND	190	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	29	ug/kg	
90-12-0	1-Methylnaphthalene	ND	190	ug/kg	
91-57-6	2-Methylnaphthalene	ND	190	ug/kg	
91-20-3	Naphthalene	ND	190	ug/kg	
85-01-8	Phenanthrene	ND	190	ug/kg	
129-00-0	Pyrene	ND	29	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

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

000003