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FINAL TECHNICAL MEMORANDUM FOR NO FURTHER ACTION AT POTENTIAL SOURCE OF CONTAMINATION 6 LAKE FRETWELL RUBBLE DISPOSAL AREA NAS CECIL FIELD FL
7/3/2000
TETRA TECH NUS INC

Rev. 1
07/03/00

Technical Memorandum
for
No Further Action

Potential Source of Contamination 6
Lake Fretwell Rubble Disposal Area

Naval Air Station Cecil Field
Jacksonville, Florida

Southern Division
Naval Facilities Engineering Command
Contract Number N62467-94-D-0888

Contract Task Order 0078

July 2000

Rev. 1
07/03/00

TECHNICAL MEMORANDUM FOR NO FURTHER ACTION

POTENTIAL SOURCE OF CONTAMINATION 6
LAKE FRETWELL RUBBLE DISPOSAL AREA

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

COMPREHENSIVE LONG-TERM ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT

Submitted to:
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Naval Facilities Engineering Command
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CONTRACT NUMBER N62467-94-D-0888
CONTRACT TASK ORDER 0078

JULY 2000

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The professional opinions rendered in this decision document identified as Technical Memorandum for No Further Action, Potential Source of Contamination 6, 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 this project described in this report.

Mark Speranza

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

Date: 7/5/00

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: _____July 3, 2000_____

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

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ACRONYMS

ABB-ES	ABB Environmental Services, Inc.
ATSDR	Agency for Toxic Substances and Disease Registry
BAF	Bioaccumulation factor
BaP	Benzo(a)pyrene
BCT	BRAC Cleanup Team
bgs	Below ground surface
BRAC	Base Realignment and Closure
CLEAN	Comprehensive Long-Term Environmental Action Navy
COPC	Contaminant of potential concern
CTO	Contract Task Order
DRMO	Defense Reutilization and Marketing Office
EBS	Environmental Baseline Survey
EISOPQAM	Environmental Investigations Standard Operating Procedures and Quality Assurance Manual
ESV	Ecological screening value
F.A.C.	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
HLA	Harding Lawson and Associates
HQ	Hazard quotient
IAS	Initial Assessment Study
IZS	Intermediate zone of surficial aquifer
LOAEL	Lowest-observed-adverse-effects level
LZS	Lower zone of surficial aquifer
MHSP&E	Ministry of Housing, Spatial Planning and Environment (Netherlands)
NAS	Naval Air Station
NAVFACENGCOM	Naval Facilities Engineering Command
NOAEL	No-observed-adverse-effects level
ORNL	Oak Ridge National Laboratory
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PRE	Preliminary Risk Evaluation
PSC	Potential Source of Contamination
RAC	Remedial Action Contractor
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation

SCTL	Soil cleanup target level
SOUTHDIV	Southern Division
TAL	Target Analyte List
TCL	Target Compound List
TRPH	Total recoverable petroleum hydrocarbons
TRV	Toxicity reference value
TtNUS	Tetra Tech NUS, Inc.
UCL	Upper confidence limit
U.S. EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UZS	Upper zone of surficial aquifer
VLF	Very low frequency
VOC	Volatile organic compound
WWTP	Wastewater treatment plant

1.0 INTRODUCTION

This technical memorandum for Potential Source of Contamination (PSC) 6, the Lake Fretwell Rubble Disposal Area at Naval Air Station (NAS) Cecil Field, has been prepared by Tetra Tech NUS, Inc. (TtNUS) for the Department of the Navy Southern Division (SOUTHDIV), Naval Facilities Engineering Command (NAVFACENGCOM) under the Navy Comprehensive Long-Term Environmental Action Navy (CLEAN) Program, Contract Number N62467-94-D-0888, Contract Task Order (CTO) 0078. The Base Realignment and Closure (BRAC) Closure Team (BCT) elected to excavate and dispose of soil at PSC 6 that is contaminated with arsenic, polycyclic aromatic hydrocarbons (PAHs), and total recoverable petroleum hydrocarbons (TRPH).

TtNUS performed a three-phase field investigation at PSC 6 in May, June, and July 1999 to supplement the results of previous investigations. The purpose of the TtNUS investigation was to delineate the extent of arsenic- and PAH-contaminated soil. The results of this investigation were used to prepare a dig and haul package for a removal action consisting of soil excavation and off-site disposal of the arsenic- and PAH-contaminated surface soil.

This technical memorandum presents information from the previous investigations, the three-phase PSC investigation conducted by TtNUS, and the Construction Completion Report for PSC 6, including related field operations, results, conclusions, and recommendations.

2.0 SITE DESCRIPTION

2.1 PHYSICAL SETTING

PSC 6, the Lake Fretwell Rubble Disposal Area, is located in the southwestern part of the main base at NAS Cecil Field, along the eastern shore of Lake Fretwell (Figures 2-1 and 2-2). To the north, PSC 6 is bounded by a drainage ditch that discharges into Lake Fretwell. The site is bordered to the east by an unpaved service road and to the south by open to partially wooded land. The site is accessible by service roads that run along the northern and northwestern extents of the site into the south-central part of the site and along the southern extent of the site. A small embayment located in the southwestern portion of PSC 6 opens to Lake Fretwell. The general slope of the land is east to west, toward Lake Fretwell. Although overland water flow is interpreted to be toward Lake Fretwell, there is no obvious drainage pattern on the site. Western parts of the site are marshy, with seeps and ponded water near the lake's shore. PSC 6 is approximately 700 feet long (north to south) and 350 feet wide (east to west), or approximately 5.6 acres.

2.2 SITE HISTORY

PSC 6 was used as a rubble disposal area for approximately 30 years, from the mid-1950s until 1984. Originally, the site was a low-lying marshy area, and rubble was used to fill in and build up the area. The NAS Cecil Field Public Works Department discarded debris at this site by dumping the debris onto the land surface. The majority of the waste materials were construction and building demolition debris. Wastes disposed at the site included concrete (primarily flightline material), lumber, tree clippings, scrap metal, and similar inert materials. The rubble in the northern half of the site has been covered with soil, and a 3- to 5-foot berm has been placed along the northern and westernmost perimeters of PSC 6. The rubble in the southern half of the site is uncovered. The volume of materials dumped at PSC 6 is unknown. There are no reports or evidence that hazardous materials were being disposed at PSC 6 [ABB Environmental Services (ABB-ES), 1994].

2.3 SITE GEOLOGY

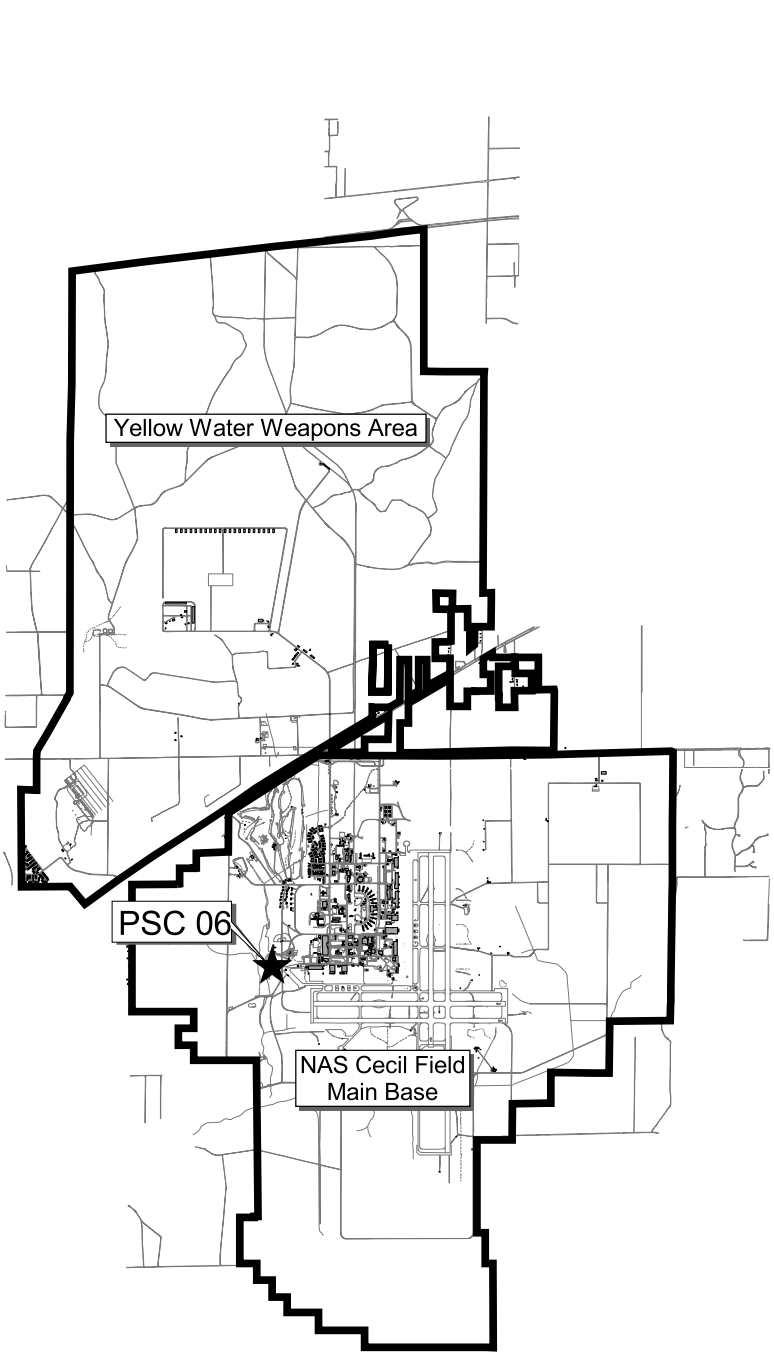
NAS Cecil Field is located within the Duval Uplands Physiographic Province, which is an irregular flat plain consisting of various Pleistocene marine terraces. Beneath these marine sediments is the Pliocene-Pleistocene Nashua Formation, described as a fossiliferous, variably calcareous, sometimes clayey quartz sand. Below the Nashua is the Miocene Hawthorne Group, consisting of clay-rich sediment with a locally continuous carbonate-rich dolostone near its top. Beneath the Hawthorn are carbonate-rich units including the Ocala Limestone, the Avon Park Formation, and the Oldsmar Formation.

Based on information from Operable Unit 3 Site 7 (located adjacent to PSC 6), the area is underlain by approximately 85 feet of fine- to medium-grained, poorly- to well-sorted quartz sands with some silty sand, clayey sand, and clay stringers. These sandy materials vary in color from light brown to dark gray. Beneath these sandy materials is a sandy clay with dolomite pebble unit that contains an occasional lens of clayey sand. This unit varies in thickness from 1 to 8 feet, with an average thickness of 5 feet. Grain sizes range from coarse gravel to clay. Generally, this sandy clay unit is dark gray, dense, and moist. The dolomite in this unit is generally brown and friable and has obvious shell replacement features. Based on borehole data from other locations at NAS Cecil Field, a dense dolomite layer underlies this sandy clay and dolomite layer and is usually encountered at depths between 95 and 100 feet.

2.4 SITE HYDROGEOLOGY

Three water-bearing units are present within the site area including the surficial aquifer, the intermediate aquifer, and the Floridian aquifer system. The surficial aquifer is unconfined and consists of very fine-grained quartz sand with up to 10 percent silt and clay. It is divided into the upper zone (UZS), intermediate zone (IZS), and lower zone (LZS) of the surficial aquifer. In some areas of NAS Cecil Field, a thick clay layer separates the overlying sediments from the Nashua Formation. Depth to groundwater within the surficial aquifer (water-table aquifer) in the northeastern part of the site is approximately 5 to 6 feet below ground surface (bgs), and depth to groundwater in the southwestern part of the site is generally 1 to 2 feet bgs. Groundwater flow is generally to the northwest toward Lake Fretwell. Aquifer tests conducted by the United States Geological Survey (USGS) at the base indicate a hydraulic conductivity of 3 feet per day for the surficial aquifer from which a groundwater seepage velocity of 19 to 21 feet per year was calculated.

The intermediate aquifer system consists of the Hawthorn Group, a dolomite unit with significant secondary porosity and underlying clay-rich sediments forming a confining layer. The dolomite unit is known as the “rock aquifer” and is widely used as a private drinking water source in the region. Unconformably underlying the Hawthorn confining unit is the Floridian aquifer system, which is the principal source of groundwater used for public drinking water in Florida’s northern peninsula.



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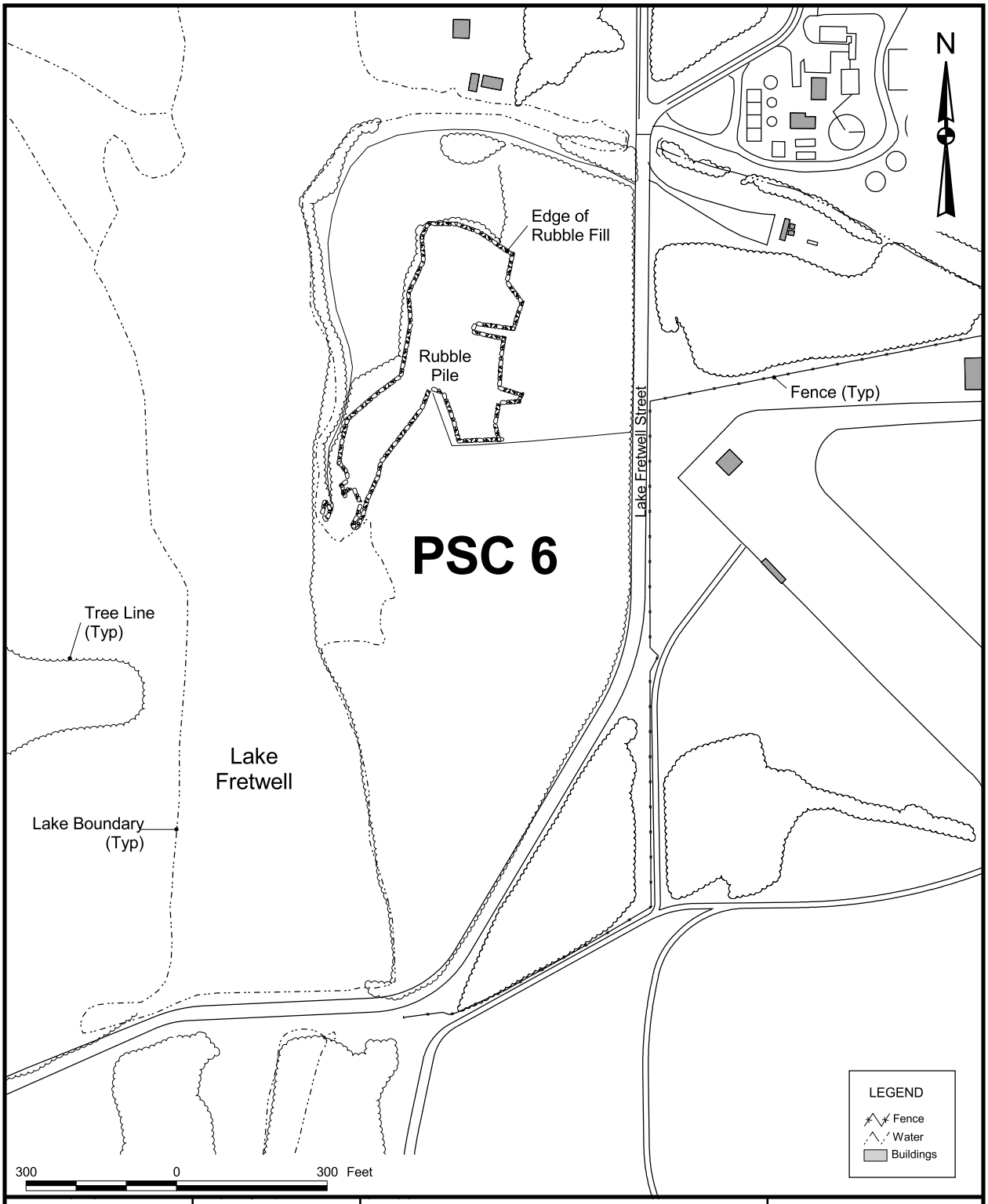
DRAWN BY MJJ	DATE 08Nov99	GENERAL LOCATION MAP PSC 6, LAKE FRETWELL SEDIMENTS NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2-1 / REV 0

P:\GIS\CECIL\psc06.apr 08Nov99 MJJ 2-1 Site Location Map Layout



DRAWN BY MJJ	DATE 08Nov99	SITE LOCATION MAP PSC 6, LAKE FRETWELL SEDIMENTS NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2-2 / REV 0

P:\GIS\CECIL\psc06.apr 29Jun00 MJJ 2-2 Site Location Map Layout

3.0 PREVIOUS INVESTIGATIONS

The investigation of PSC 6 began in 1984, with the Initial Assessment Study (IAS) conducted by Envirodyne Engineers, Inc. (1985). This IAS identified wastes disposed at the site as concrete, lumber, tree clippings, scrap metal, and other inert materials. Due to the nature of the inert materials disposed at PSC 6, the IAS concluded that the site is not a significant source of potential surface water or groundwater contamination and no confirmation study was necessary. No environmental samples were collected at PSC 6 during the IAS.

In 1987, Harding Lawson Associates (HLA) conducted a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) (HLA, 1988). Magnetometer and very-low frequency (VLF) electromagnetic surveys were conducted during the RFI. The magnetometer survey indicated metal was present in the form of steel reinforcing bars in the concrete debris over most of the site. The VLF data indicated only one area where measurements were above background values. This area, approximately 60 feet by 60 feet, is located in the northern part of PSC 6. The RFI concluded that this area is isolated and has no apparent connection with PSC 6. There was no indication of past hazardous waste disposal at PSC 6; therefore, no environmental samples were collected during the RFI.

In April 1993, ABB Environmental Services, Inc. (ABB-ES) collected preliminary screening samples at PSC 6. Five surface soil samples and one sediment sample were collected. The screening samples were analyzed by an on-site laboratory for volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (U.S. EPA) Method 8010 (halogenated hydrocarbons) and Method 8020 (aromatic hydrocarbons), modified to include naphthalene. Analytical results are presented in Appendix A.

In December 1994, ABB-ES personnel conducted a site walkover of PSC 6. The predominant type of debris observed was concrete. Most of the concrete appeared to be rectangular in shape and varying in size. The majority of the concrete contained steel reinforcement bars and appeared to be old flightline material or construction blocks.

In March 1995, ABB-ES personnel conducted another site walkover focusing on the southern end of the site. Additional concrete rubble was observed along the southern access road (Figure 2-2) and was isolated from the debris located at the northern end of PSC 6.

In 1997, ABB-ES conducted a field investigation to assess the presence of contamination at PSC 6. This investigation consisted of a geophysical survey and surface soil, subsurface soil, groundwater, surface water, and sediment sampling. The geophysical survey was conducted using a magnetometer and a Geonics EM-31 terrain conductivity meter. Readings above background values were detected in the

areas where concrete rubble containing steel reinforcement bars was located. Survey results indicated buried materials in the northern part of PSC 6.

Groundwater quality in the upper part of the surficial aquifer was evaluated by installing and sampling five shallow monitoring wells, one upgradient and four downgradient of the debris piles, at PSC 6 in July 1997. The groundwater samples were analyzed for Target Compound List (TCL) organics and Target Analyte List (TAL) inorganics. Two additional groundwater samples were collected at PSC 6 in July 1998 and analyzed for specific TAL inorganics.

Ten surface soil and five subsurface soil samples were collected at PSC 6 in February 1997. Five surface soil samples were collected topographically downgradient from the debris piles, three were collected from the debris areas, and two were collected on the southeastern part of the site. These samples were analyzed for TCL organics and TAL inorganics. Six additional surface soil samples were collected in December 1997 and analyzed for PAHs to delineate the extent of PAHs detected in the February 1997 results. One additional surface soil sample was collected in August 1998 and analyzed for PAHs to further delineate the extent of PAHs detected in the December 1997 results. The five subsurface soil samples were collected from each monitoring well location. The subsurface soil samples were analyzed for TCL organics and TAL inorganics.

Six surface water and sediment samples were collected in the PSC 6 area. Three samples were collected from the drainage canal north of PSC 6 and downstream of the wastewater treatment plant. Two samples were collected from the eastern shoreline of Lake Fretwell and one sample was collected from the northeast shore. The surface water and sediment samples were analyzed for TCL organics and TAL inorganics. Three additional sediment samples were collected in December 1997 and analyzed for PAHs to verify the February 1997 results.

A summary of the surface soil and subsurface soil analytical results for the 1997 field investigations is presented in Table 3-1 and Table 3-2, respectively. Analytical results for the 1997 field investigations are presented in Appendix A. A soil tag map, shown in Figure 3-1, presents contaminant concentrations and detection limits in excess of established screening criteria. Based on the results of this field investigation, Harding Lawson Associates (HLA) determined that it is unlikely that human health or ecological receptors would be at risk from exposure to analytes detected in surface soil, subsurface soil, groundwater, surface water, or sediment at PSC 6. Therefore, in September 1998, a draft Technical Memorandum for No Further Action (HLA, 1998) at PSC 6 was prepared. However, based on subsequent review of this document, it was decided that additional evaluation of the site was warranted. The BCT agreed that sediment data

collected from Lake Fretwell adjacent to PSC 6 would be addressed with data from PSC 48, Lake Fretwell Sediments. The BCT also agreed that a removal action for soils with contaminant concentrations in excess of soil cleanup target levels (SCTLs) should be conducted and that a revised technical memorandum be submitted following soil removal.

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TABLE 3-1

SUMMARY OF SURFACE SOIL SAMPLE RESULTS
1997 FIELD INVESTIGATIONS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA

Analytical Parameter	Frequency of Detection[1]	Range of Reporting Limits	Range of Detected Concentrations
VOLATILE ORGANIC COMPOUNDS (µg/kg)			
Acetone	1 / 10	13	14
Chloroform	1 / 10	15	3 J
Toluene	2 / 10	13 to 15	5 J to 5 J
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)			
Phenanthrene	3 / 16	360 to 1,200	44 J to 310J
Fluoranthene	6 / 16	360 to 1,200	60 J to 4.900
Fluoranthene[2]	1 / 1	3.3	310
Pyrene	8 / 16	360 to 1,200	48 J to 3,800
Pyrene[2]	1 / 1	1.7	250
Butylbenzylphthalate	1 / 10	410	140 J
Benzo(a)anthracene	5 / 16	360 to 1,200	50 J to 650 J
Benzo(a)anthrancene[2]	1 / 1	1.7	68
Chrysene	6 / 16	360 to 1,200	49 J to 1,300
Chrysene[2]	1 / 1	1.7	92
bis(2-Ethylhexyl)phthalate	2 / 10	41 to 480	8.2 J to 41
Di-n-octylphthalate	1 / 10	41	51
Benzo(b)fluoranthene	9 / 16	360 to 1,200	47 J to 920 J
Benzo(b)fluoranthene[2]	1 / 1	3	84
Benzo(k)fluoranthene	4 / 16	360 to 1,200	0.057J to 0.36J
Benzo(k)fluoranthene[2]	1 / 1	2	17
Benzo(a)pyrene	7 / 16	360 to 1,200	41 J to 400 J
Benzo(a)pyrene[2]	1 / 1	2	26
Indeno(1,2,3-cd)pyrene	5 / 16	360 to 1,200	0.083J to 0.19J
Indeno(1,2,3-cd)pyrene[2]	1 / 1	1.7	26
Benzo(g,h,i)perylene	5 / 16	360 to 1,200	74 J to 17 J
Benzo(g,h,i)perylene[2]	1 / 1	3.3	20
PESTICIDES AND POLYCHLORINATED BIPHENYLS (µg/kg)			
Heptachlor	2 / 10	2 to 4	0.16 J to 1 J
Aldrin	3 / 10	2	0.13 J to 0.66 J
Heptachlor epoxide	2 / 10	2 to 2.2	0.22 J to 4.8 J

TABLE 3-1

SUMMARY OF SURFACE SOIL SAMPLE RESULTS
1997 FIELD INVESTIGATIONS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA

Analytical Parameter	Frequency of Detection[1]	Range of Reporting Limits	Range of Detected Concentrations
PESTICIDES AND POLYCHLORINATED BIPHENYLS (µg/kg) (continued)			
Dieldrin	1 / 10	22	1.4 J
4,4'-DDE	7 / 10	0.004 to 0.007	0.00062J to 0.034
4,4'-DDD	3 / 10	0.004 to 0.005	0.00056J to 0.0051J
4,4'-DDT	6 / 10	0.004 to 0.007	0.00025J to 0.017J
Endosulfan sulfate	1 / 10	0.004	0.00064J
Endrin ketone	2 / 10	0.004 to 0.005	0.00008J to 0.00022J
Methoxychlor	3 / 10	0.022 to 0.024	0.0036J to 0.0096J
alpha-Chlordane	4 / 10	0.002 to 0.004	0.00013J to 0.022
gamma-Chlordane	3 / 10	0.002 to 0.004	0.00074J to 0.022
INORGANICS (mg/kg)			
Aluminum	10 / 10	40	689 to 2,960
Antimony	1 / 10	12	1.1J
Arsenic	2/ 10	2	0.87J to 2.4J
Barium	10 / 10	40	2.4J to 15.8J
Cadmium	3 / 10	1	0.5J to 1J
Calcium	10 / 10	1,000	247J to 9,640
Chromium	10 / 10	2	1.1J to 8.4
Cobalt	5 / 10	10	0.26J to 0.53J
Copper	9 / 10	5	0.33J to 8.5
Cyanide	4 / 10	0.5	0.1J to 0.22J
Iron	10 /10	20	315 to 8,000
Lead	10 / 10	0.6	3.7 to 35.2
Magnesium	10 / 10	1,000	57.5J to 429J
Manganese	10 / 10	3	2.6J to 131
Mercury	3 / 10	0.1	0.09J to 0.14J
Nickel	8 / 10	8	0.64J to 2.4J
Potassium	9 / 10	1,000	28.6J to 146J
Silver	2 / 10	2	0.67J to 1.3J
Thallium	1 / 10	1	0.94J
Vanadium	10 / 10	10	0.85J to 6.5J
Zinc	10 / 10	4	4.2J to 69.4J

TABLE 3-1

SUMMARY OF SURFACE SOIL SAMPLE RESULTS
1997 FIELD INVESTIGATIONS

Analytical Parameter	Frequency of Detection[1]	Range of Reporting Limits	Range of Detected Concentrations
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (mg/kg)			
TRPH	2 / 2	27 to 74	270 to 530

1. Frequency of detection is the number of samples in which the analyte was detected over the total number of samples analyzed (CF6SS1, CF6SS2, CF6SS3, CF6SS4, CF6SS5, CF6SS6, CF6SS7, CF6SS8, CF6SS9, and CF6SS10). Six additional samples (CF6SS3A, CF6SS3B, CF6SS3C, CF6SS5A, CF6SS5B, and CF6SS5C) were collected in December 1997 for analysis of polycyclic aromatic hydrocarbons. Sample locations CF6SS9 and CF6SS10 were the only samples analyzed for TRPH.
2. An additional sample (CF6SS5D) was collected on August 28, 1998 for PAH analysis.

J = Estimated concentration

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TABLE 3-2

**SUMMARY OF SUBSURFACE SOIL SAMPLES
1997-1998 FIELD INVESTIGATION
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
PAGE 1 OF 2**

Analytical Parameter	Frequency of Detection[1]	Range of Reporting Limits	Range of Detected Concentrations
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)			
Phenanthrene	1 / 5	410	150J
Fluoranthene	2 / 5	410 to 440	76J to 200J
Pyrene	2 / 5	410 to 440	130J to 220J
Benzo(a)anthracene	2 / 5	410 to 440	63J to 110J
Chrysene	2 / 5	410 to 440	80J to 130J
Benzo(b)fluoranthene	2 / 5	410 to 440	160J to 200J
Benzo(k)fluoranthene	2 / 5	410 to 440	56J to 60J
Benzo(a)pyrene	2 / 5	410 to 440	120J to 150J
Indeno(1,2,3-cd)pyrene	2 / 5	410 to 440	69J to 120J
Benzo(g,h,I)perylene	2 / 5	410 to 440	65J to 140J
PESTICIDES AND POLYCHLORINATED BIPHENYLS (µg/kg)			
Aldrin	3 / 5	2 to 2.2	0.096J to 0.18J
Endosulfan I	1 / 5	2	0.265J
4,4'-DDD	1 / 5	4	0.083J
4,4'-DDE	4 / 5	4	0.13J to 15
4,4'-DDT	1 / 5	4	0.2J
Endrin	1 / 5	4	0.82J
alpha-Chlordane	3 / 5	2	0.43J to 9.9
gamma-Chlordane	3 / 5	2	0.2J to 9.6
Aroclor-1254	1 / 5	41	78
INORGANICS (mg/kg)			
Aluminum	5 / 5	40	1,140 to 7,140
Antimony	1 / 5	12	1.9J
Arsenic	3 / 5	2	0.89J to 7.7
Barium	5 / 5	40	4.6J to 41.2J
Cadmium	1 / 5	1	0.27J
Calcium	5 / 5	1,000	82.9J to 26,300
Chromium	5 / 5	2	2.2J to 14.8J
Cobalt	3 / 5	10	0.38J to 1.6J
Copper	4 / 5	5	1.8J to 152

TABLE 3-2
SUMMARY OF SUBSURFACE SOIL SAMPLES
1997-1998 FIELD INVESTIGATION
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
PAGE 2 OF 2

Analytical Parameter	Frequency of Detection[1]	Range of Reporting Limits	Range of Detected Concentrations
INORGANICS (mg/kg) (continued)			
Cyanide	3 / 5	0.5	0.08J to 0.21J
Iron	5 / 5	20	200J to 13,800J
Lead	5 / 5	0.6	2.9 to 88.1
Magnesium	5 / 5	1,000	44.8J to 1,260J
Manganese	5 / 5	3	3.2J to 105
Mercury	1 / 5	0.1	0.16
Nickel	5 / 5	8	0.88J to 7.2J
Potassium	5 / 5	1,000	22.3J to 215
Selenium	2 / 5	1	1.3J to 1.3J
Silver	1 / 5	2	0.48J
Sodium	1 / 5	1,000	91.7J
Vanadium	5 / 5	10	2.5J to 9.5J
Zinc	5 / 5	4	0.96J to 280

[1] Frequency of detection is the number of samples in which the analyte was detected over the total number of samples analyzed (CF6SB1, CF6SB2, CF6SB3, CF6SB4, and CF6SB5).

mg/kg = milligram per kilogram
J = estimated value

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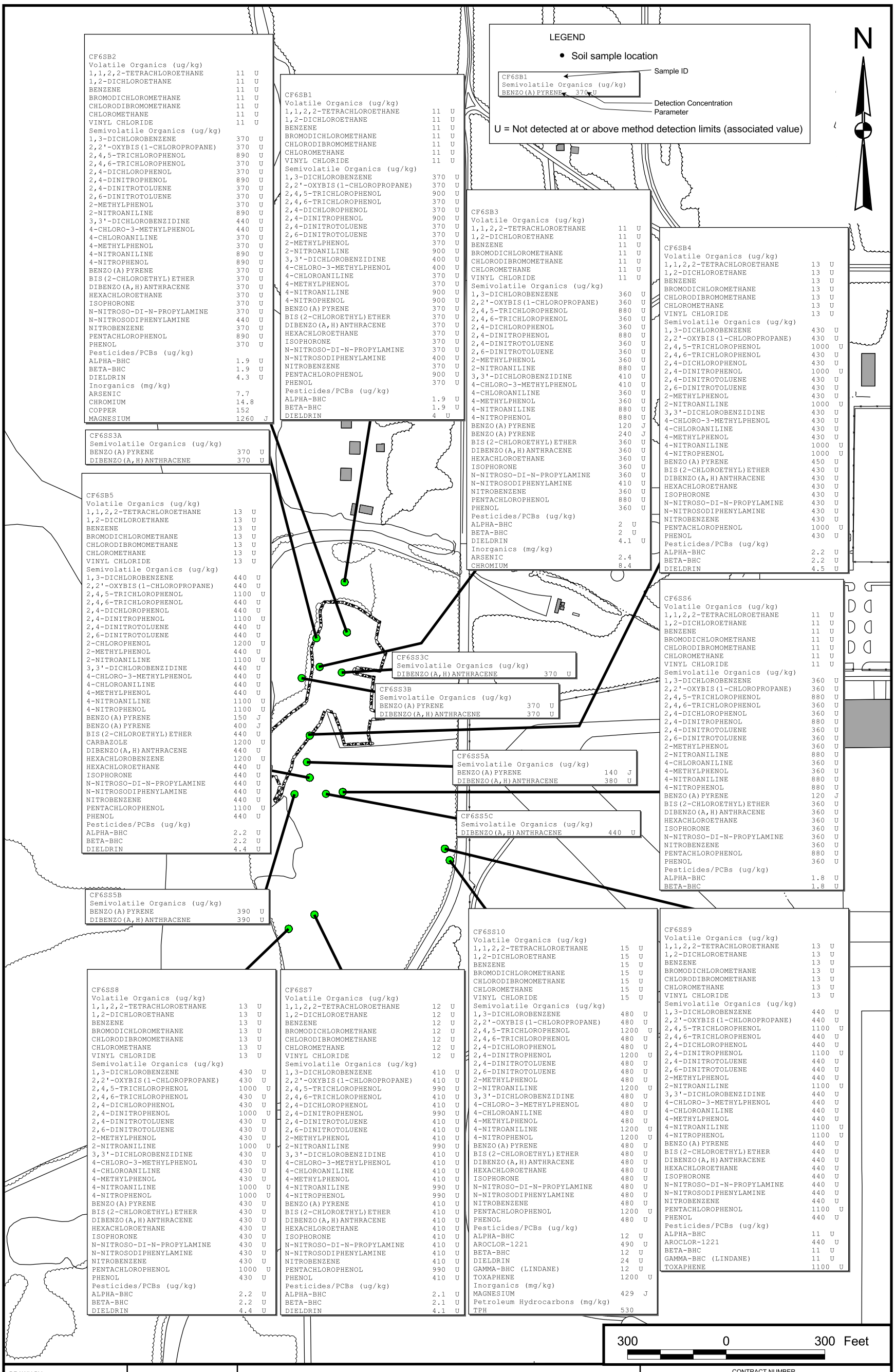


CF6SB2
Volatile Organics (ug/kg)

1,1,2,2-TETRACHLOROETHANE	11	U
1,2-DICHLOROETHANE	11	U
BENZENE	11	U
BROMODICHLOROMETHANE	11	U
CHLORODIBROMOMETHANE	11	U
CHLOROMETHANE	11	U
VINYL CHLORIDE	11	U
Semivolatile Organics (ug/kg)		
1,3-DICHLOROBENZENE	370	U
2,2'-OXYBIS(1-CHLOROPROPANE)	370	U
2,4,5-TRICHLOROPHENOL	890	U
2,4,6-TRICHLOROPHENOL	370	U
2,4-DICHLOROPHENOL	370	U
2,4-DINITROPHENOL	890	U
2,4-DINITROTOLUENE	370	U
2,6-DINITROTOLUENE	370	U
2-METHYLPHENOL	370	U
2-NITROANILINE	890	U
3,3'-DICHLOROBENZIDINE	440	U
4-CHLORO-3-METHYLPHENOL	440	U
4-CHLOROANILINE	370	U
4-METHYLPHENOL	370	U
4-NITROANILINE	890	U
4-NITROPHENOL	890	U
BENZO(A)PYRENE	370	U
BIS(2-CHLOROETHYL)ETHER	370	U
DIBENZO(A,H)ANTHRACENE	370	U
HEXACHLOROETHANE	370	U
ISOPHORONE	370	U
N-NITROSO-DI-N-PROPYLAMINE	370	U
N-NITROSODIPHENYLAMINE	440	U
NITROBENZENE	370	U
PENTACHLOROPHENOL	890	U
PHENOL	370	U
Pesticides/PCBs (ug/kg)		
ALPHA-BHC	1.9	U
BETA-BHC	1.9	U
DIELDRIN	4.3	U
Inorganics (mg/kg)		
ARSENIC	7.7	
CHROMIUM	14.8	
COPPER	152	
MAGNESIUM	1260	J

CF6SS3A
Semivolatile Organics (ug/kg)

BENZO(A)PYRENE	370	U
DIBENZO(A,H)ANTHRACENE	370	U

CF6SB5
Volatile Organics (ug/kg)

1,1,2,2-TETRACHLOROETHANE	13	U
1,2-DICHLOROETHANE	13	U
BENZENE	13	U
BROMODICHLOROMETHANE	13	U
CHLORODIBROMOMETHANE	13	U
CHLOROMETHANE	13	U
VINYL CHLORIDE	13	U
Semivolatile Organics (ug/kg)		
1,3-DICHLOROBENZENE	440	U
2,2'-OXYBIS(1-CHLOROPROPANE)	440	U
2,4,5-TRICHLOROPHENOL	1100	U
2,4,6-TRICHLOROPHENOL	440	U
2,4-DICHLOROPHENOL	440	U
2,4-DINITROPHENOL	1100	U
2,4-DINITROTOLUENE	440	U
2,6-DINITROTOLUENE	440	U
2-CHLOROPHENOL	1200	U
2-METHYLPHENOL	440	U
2-NITROANILINE	1100	U
3,3'-DICHLOROBENZIDINE	440	U
4-CHLORO-3-METHYLPHENOL	440	U
4-CHLOROANILINE	440	U
4-METHYLPHENOL	440	U
4-NITROANILINE	1100	U
4-NITROPHENOL	1100	U
BENZO(A)PYRENE	150	J
BENZO(A)PYRENE	400	J
BIS(2-CHLOROETHYL)ETHER	440	U
CARBAZOLE	1200	U
DIBENZO(A,H)ANTHRACENE	440	U
HEXACHLOROBENZENE	1200	U
HEXACHLOROETHANE	440	U
ISOPHORONE	440	U
N-NITROSO-DI-N-PROPYLAMINE	440	U
N-NITROSODIPHENYLAMINE	440	U
NITROBENZENE	440	U
PENTACHLOROPHENOL	1100	U
PHENOL	440	U
Pesticides/PCBs (ug/kg)		
ALPHA-BHC	2.2	U
BETA-BHC	2.2	U
DIELDRIN	4.4	U

CF6SS5B
Semivolatile Organics (ug/kg)

BENZO(A)PYRENE	390	U
DIBENZO(A,H)ANTHRACENE	390	U

CF6SS8
Volatile Organics (ug/kg)

1,1,2,2-TETRACHLOROETHANE	13	U
1,2-DICHLOROETHANE	13	U
BENZENE	13	U
BROMODICHLOROMETHANE	13	U
CHLORODIBROMOMETHANE	13	U
CHLOROMETHANE	13	U
VINYL CHLORIDE	13	U
Semivolatile Organics (ug/kg)		
1,3-DICHLOROBENZENE	430	U
2,2'-OXYBIS(1-CHLOROPROPANE)	430	U
2,4,5-TRICHLOROPHENOL	1000	U
2,4,6-TRICHLOROPHENOL	430	U
2,4-DICHLOROPHENOL	430	U
2,4-DINITROPHENOL	1000	U
2,4-DINITROTOLUENE	430	U
2,6-DINITROTOLUENE	430	U
2-METHYLPHENOL	430	U
2-NITROANILINE	1000	U
3,3'-DICHLOROBENZIDINE	430	U
4-CHLORO-3-METHYLPHENOL	430	U
4-CHLOROANILINE	430	U
4-METHYLPHENOL	430	U
4-NITROANILINE	1000	U
4-NITROPHENOL	1000	U
BENZO(A)PYRENE	430	U
BIS(2-CHLOROETHYL)ETHER	430	U
DIBENZO(A,H)ANTHRACENE	430	U
HEXACHLOROETHANE	430	U
ISOPHORONE	430	U
N-NITROSO-DI-N-PROPYLAMINE	430	U
N-NITROSODIPHENYLAMINE	430	U
NITROBENZENE	430	U
PENTACHLOROPHENOL	1000	U
PHENOL	430	U
Pesticides/PCBs (ug/kg)		
ALPHA-BHC	2.2	U
BETA-BHC	2.2	U
DIELDRIN	4.4	U

CF6SB1
Volatile Organics (ug/kg)

1,1,2,2-TETRACHLOROETHANE	11	U
1,2-DICHLOROETHANE	11	U
BENZENE	11	U
BROMODICHLOROMETHANE	11	U
CHLORODIBROMOMETHANE	11	U
CHLOROMETHANE	11	U
VINYL CHLORIDE	11	U
Semivolatile Organics (ug/kg)		
1,3-DICHLOROBENZENE	370	U
2,2'-OXYBIS(1-CHLOROPROPANE)	370	U
2,4,5-TRICHLOROPHENOL	900	U
2,4,6-TRICHLOROPHENOL	370	U
2,4-DICHLOROPHENOL	370	U
2,4-DINITROPHENOL	900	U
2,4-DINITROTOLUENE	370	U
2,6-DINITROTOLUENE	370	U
2-METHYLPHENOL	370	U
2-NITROANILINE	900	U
3,3'-DICHLOROBENZIDINE	400	U
4-CHLORO-3-METHYLPHENOL	400	U
4-CHLOROANILINE	370	U
4-METHYLPHENOL	370	U
4-NITROANILINE	900	U
4-NITROPHENOL	900	U
BENZO(A)PYRENE	370	U
BIS(2-CHLOROETHYL)ETHER	370	U
DIBENZO(A,H)ANTHRACENE	370	U
HEXACHLOROETHANE	370	U
ISOPHORONE	370	U
N-NITROSO-DI-N-PROPYLAMINE	370	U
N-NITROSODIPHENYLAMINE	400	U
NITROBENZENE	370	U
PENTACHLOROPHENOL	900	U
PHENOL	370	U
Pesticides/PCBs (ug/kg)		
ALPHA-BHC	1.9	U
BETA-BHC	1.9	U
DIELDRIN	4	U

CF6SS3C
Semivolatile Organics (ug/kg)

DIBENZO(A,H)ANTHRACENE	370	U

CF6SS3B
Semivolatile Organics (ug/kg)

BENZO(A)PYRENE	370	U
DIBENZO(A,H)ANTHRACENE	370	U

CF6SS5A
Semivolatile Organics (ug/kg)

BENZO(A)PYRENE	140	J
DIBENZO(A,H)ANTHRACENE	380	U

CF6SS5C
Semivolatile Organics (ug/kg)

DIBENZO(A,H)ANTHRACENE	440	U

CF6SS7
Volatile Organics (ug/kg)

1,1,2,2-TETRACHLOROETHANE	12	U
1,2-DICHLOROETHANE	12	U
BENZENE	12	U
BROMODICHLOROMETHANE	12	U
CHLORODIBROMOMETHANE	12	U
CHLOROMETHANE	12	U
VINYL CHLORIDE	12	U
Semivolatile Organics (ug/kg)		
1,3-DICHLOROBENZENE	410	U
2,2'-OXYBIS(1-CHLOROPROPANE)	410	U
2,4,5-TRICHLOROPHENOL	990	U
2,4,6-TRICHLOROPHENOL	410	U
2,4-DICHLOROPHENOL	410	U
2,4-DINITROPHENOL	990	U
2,4-DINITROTOLUENE	410	U
2,6-DINITROTOLUENE	410	U
2-METHYLPHENOL	410	U
2-NITROANILINE	990	U
3,3'-DICHLOROBENZIDINE	410	U
4-CHLORO-3-METHYLPHENOL	410	U
4-CHLOROANILINE	410	U
4-METHYLPHENOL	410	U
4-NITROANILINE	990	U
4-NITROPHENOL	990	U
BENZO(A)PYRENE	410	U
BIS(2-CHLOROETHYL)ETHER	410	U
DIBENZO(A,H)ANTHRACENE	410	U
HEXACHLOROETHANE	410	U
ISOPHORONE	410	U
N-NITROSO-DI-N-PROPYLAMINE	410	U
N-NITROSODIPHENYLAMINE	410	U
NITROBENZENE	410	U
PENTACHLOROPHENOL	990	U
PHENOL	410	U
Pesticides/PCBs (ug/kg)		
ALPHA-BHC	2.1	U
BETA-BHC	2.1	U
DIELDRIN	4.1	U

CF6SB3
Volatile Organics (ug/kg)

1,1,2,2-TETRACHLOROETHANE	11	U
1,2-DICHLOROETHANE	11	U
BENZENE	11	U
BROMODICHLOROMETHANE	11	U
CHLORODIBROMOMETHANE	11	U
CHLOROMETHANE	11	U
VINYL CHLORIDE	11	U
Semivolatile Organics (ug/kg)		
1,3-DICHLOROBENZENE	360	U
2,2'-OXYBIS(1-CHLOROPROPANE)	360	U
2,4,5-TRICHLOROPHENOL	880	U
2,4,6-TRICHLOROPHENOL	360	U
2,4-DICHLOROPHENOL	360	U
2,4-DINITROPHENOL	880	U
2,4-DINITROTOLUENE	360	U
2,6-DINITROTOLUENE	360	U
2-METHYLPHENOL	360	U
2-NITROANILINE	880	U
3,3'-DICHLOROBENZIDINE	410	U
4-CHLORO-3-METHYLPHENOL	410	U
4-CHLOROANILINE	360	U
4-METHYLPHENOL	360	U
4-NITROANILINE	880	U
4-NITROPHENOL	880	U
BENZO(A)PYRENE	120	J
BENZO(A)PYRENE	240	J
BIS(2-CHLOROETHYL)ETHER	360	U
DIBENZO(A,H)ANTHRACENE	360	U
HEXACHLOROETHANE	360	U
ISOPHORONE	360	U
N-NITROSO-DI-N-PROPYLAMINE	360	U
N-NITROSODIPHENYLAMINE	410	U
NITROBENZENE	360	U
PENTACHLOROPHENOL	880	U
PHENOL	360	U
Pesticides/PCBs (ug/kg)		
ALPHA-BHC	2	U
BETA-BHC	2	U
DIELDRIN	4.1	U
Inorganics (mg/kg)		
ARSENIC	2.4	
CHROMIUM	8.4	

CF6SS10
Volatile Organics (ug/kg)

1,1,2,2-TETRACHLOROETHANE	15	U
1,2-DICHLOROETHANE	15	U
BENZENE	15	U
BROMODICHLOROMETHANE	15	U
CHLORODIBROMOMETHANE	15	U
CHLOROMETHANE	15	U
VINYL CHLORIDE	15	U
Semivolatile Organics (ug/kg)		
1,3-DICHLOROBENZENE	480	U
2,2'-OXYBIS(1-CHLOROPROPANE)	480	U
2,4,5-TRICHLOROPHENOL	1200	U
2,4,6-TRICHLOROPHENOL	480	U
2,4-DICHLOROPHENOL	480	U
2,4-DINITROPHENOL	1200	U
2,4-DINITROTOLUENE	480	U
2,6-DINITROTOLUENE	480	U
2-METHYLPHENOL	480	U
2-NITROANILINE	1200	U
3,3'-DICHLOROBENZIDINE	480	U
4-CHLORO-3-METHYLPHENOL	480	U
4-CHLOROANILINE	480	U
4-METHYLPHENOL	480	U
4-NITROANILINE	1200	U
4-NITROPHENOL	1200	U
BENZO(A)PYRENE	480	U
BIS(2-CHLOROETHYL)ETHER	480	U
DIBENZO(A,H)ANTHRACENE	480	U
HEXACHLOROETHANE	480	U
ISOPHORONE	480	U
N-NITROSO-DI-N-PROPYLAMINE	480	U
N-NITROSODIPHENYLAMINE	480	U
NITROBENZENE	480	U
PENTACHLOROPHENOL	1200	U
PHENOL	480	U
Pesticides/PCBs (ug/kg)		
ALPHA-BHC	12	U
AROCLOR-1221	490	U
BETA-BHC	12	U
DIELDRIN	24	U
GAMMA-BHC (LINDANE)	12	U
TOXAPHENE	1200	U
Inorganics (mg/kg)		
MAGNESIUM	429	J
Petroleum Hydrocarbons (mg/kg)		
TPH	530	

CF6SB4
Volatile Organics (ug/kg)

1,1,2,2-TETRACHLOROETHANE	13	U
1,2-DICHLOROETHANE	13	U
BENZENE	13	U
BROMODICHLOROMETHANE	13	U
CHLORODIBROMOMETHANE	13	U
CHLOROMETHANE	13	U
VINYL CHLORIDE	13	U
Semivolatile Organics (ug/kg)		
1,3-DICHLOROBENZENE	430	U
2,2'-OXYBIS(1-CHLOROPROPANE)	430	U
2,4,5-TRICHLOROPHENOL	1000	U
2,4,6-TRICHLOROPHENOL	430	U
2,4-DICHLOROPHENOL	430	U
2,4-DINITROPHENOL	1000	U
2,4-DINITROTOLUENE	430	U
2,6-DINITROTOLUENE	430	U
2-METHYLPHENOL	430	U
2-NITROANILINE	1000	U
3,3'-DICHLOROBENZIDINE	430	U
4-CHLORO-3-METHYLPHENOL	430	U
4-CHLOROANILINE	430	U
4-METHYLPHENOL	430	U
4-NITROANILINE	1000	U
4-NITROPHENOL	1000	U
BENZO(A)PYRENE	450	U
BIS(2-CHLOROETHYL)ETHER	430	U
DIBENZO(A,H)ANTHRACENE	430	U
HEXACHLOROETHANE	430	U
ISOPHORONE	430	U
N-NITROSO-DI-N-PROPYLAMINE	430	U
N-NITROSODIPHENYLAMINE	430	U
NITROBENZENE	430	U
PENTACHLOROPHENOL	1000	U
PHENOL	430	U
Pesticides/PCBs (ug/kg)		
ALPHA-BHC	2.2	U
BETA-BHC	2.2	U
DIELDRIN	4.5	U

CF6SS6
Volatile Organics (ug/kg)

1,1,2,2-TETRACHLOROETHANE	11	U
1,2-DICHLOROETHANE	11	U
BENZENE	11	U
BROMODICHLOROMETHANE	11	U
CHLORODIBROMOMETHANE	11	U
CHLOROMETHANE	11	U
VINYL CHLORIDE	11	U
Semivolatile Organics (ug/kg)		
1,3-DICHLOROBENZENE	360	U
2,2'-OXYBIS(1-CHLOROPROPANE)	360	U
2,4,5-TRICHLOROPHENOL	880	U
2,4,6-TRICHLOROPHENOL	360	U
2,4-DICHLOROPHENOL	360	U
2,4-DINITROPHENOL	880	U
2,4-DINITROTOLUENE	360	U
2,6-DINITROTOLUENE	360	U
2-METHYLPHENOL	360	U
2-NITROANILINE	880	U
4-CHLOROANILINE	360	U
4-METHYLPHENOL	360	U
4-NITROANILINE	880	U
4-NITROPHENOL	880	U
BENZO(A)PYRENE	120	J
BIS(2-CHLOROETHYL)ETHER	360	U
DIBENZO(A,H)ANTHRACENE	360	U
HEXACHLOROETHANE	360	U
ISOPHORONE	360	U
N-NITROSO-DI-N-PROPYLAMINE	360	U
NITROBENZENE	360	U
PENTACHLOROPHENOL	880	U
PHENOL	360	U
Pesticides/PCBs (ug/kg)		
ALPHA-BHC	1.8	U
BETA-BHC	1.8	U

CF6SS9
Volatile Organics (ug/kg)

1,1,2,2-TETRACHLOROETHANE	13	U
1,2-DICHLOROETHANE	13	U
BENZENE	13	U
BROMODICHLOROMETHANE	13	U
CHLORODIBROMOMETHANE	13	U
CHLOROMETHANE	13	U
VINYL CHLORIDE	13	U
Semivolatile Organics (ug/kg)		
1,3-DICHLOROBENZENE	440	U
2,2'-OXYBIS(1-CHLOROPROPANE)	440	U
2,4,5-TRICHLOROPHENOL	1100	U
2,4,6-TRICHLOROPHENOL	440	U
2,4-DICHLOROPHENOL	440	U
2,4-DINITROPHENOL	1100	U
2,4-DINITROTOLUENE	440	U
2,6-DINITROTOLUENE	440	U
2-METHYLPHENOL	440	U
2-NITROANILINE	1100	U
3,3'-DICHLOROBENZIDINE	440	U
4-CHLORO-3-METHYLPHENOL	440	U
4-CHLOROANILINE	440	U
4-METHYLPHENOL	440	U
4-NITROANILINE	1100	U
4-NITROPHENOL	1100	U
BENZO(A)PYRENE	440	U
BIS(2-CHLOROETHYL)ETHER	440	U
DIBENZO(A,H)ANTHRACENE	440	U
HEXACHLOROETHANE	440	U
ISOPHORONE	440	U
N-NITROSO-DI-N-PROPYLAMINE	440	U
N-NITROSODIPHENYLAMINE	440	U
NITROBENZENE	440	U
PENTACHLOROPHENOL	1100	U
PHENOL	440	U
Pesticides/PCBs (ug/kg)		
ALPHA-BHC	11	U
AROCLOR-1221	440	U
BETA-BHC	11	U
GAMMA-BHC (LINDANE)	11	U
TOXAPHENE	1100	U

DRAWN BY MJJ	DATE 05/24/99	SOIL TAG MAP PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY RD	DATE 1/13/99		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 3-1 / REV 0

4.0 FIELD INVESTIGATION

The TtNUS field investigation at PSC 6, the Lake Fretwell Rubble Disposal Area, was performed in three phases. The objective of these sampling activities was to delineate PAH, arsenic, and total recoverable petroleum hydrocarbon (TRPH) contamination that exceeded Florida Department of Environmental Protection (FDEP) SCTLs and to resample previous locations where the data reflected elevated laboratory detection limits for PAHs in excess of the FDEP residential SCTLs.

Phase I sampling and analysis of surface soil and sediment was performed in May 1999 and consisted of the collection of the following:

- Five sediment samples for PAH analyses from Lake Fretwell and two sediment samples for PAH analyses from the ditch that drains into the lake at the north of the site. Subsequent to sample collection and analysis, the BCT decided that the samples from Lake Fretwell would be assessed with PSC 48, Lake Fretwell Sediments and that samples from the ditch would be assessed with PSC 44, Ditch from Defense Reutilization and Marketing Office (DRMO) to wastewater treatment plant (WWTP). Analytical results for these samples are reported in the Technical Memorandum for PSCs 48 and 44.

- 25 surface soil samples at depths of 0 to 1 feet and analyzed for PAHs at and surrounding previous sample locations.

- Two samples at depths of 0 to 1 foot bgs and one sample at a depth of 1 to 2 feet analyzed for TRPH to delineate a previous TRPH exceedance.

Phase II sampling and analysis of surface soil was performed in June 1999 and included the collection of the following:

- Five surface soil samples analyzed for arsenic. Four samples collected from 0 to 1 feet bgs and one sample collected at a depth of 1 to 2 feet bgs.

- Nine surface soil samples collected and analyzed for PAHs. Seven samples collected from 0 to 1 feet bgs and two samples collected at 1 to 2 feet bgs.

Phase III sampling and analysis of surface soils was conducted in July 1999 and included the collection of:

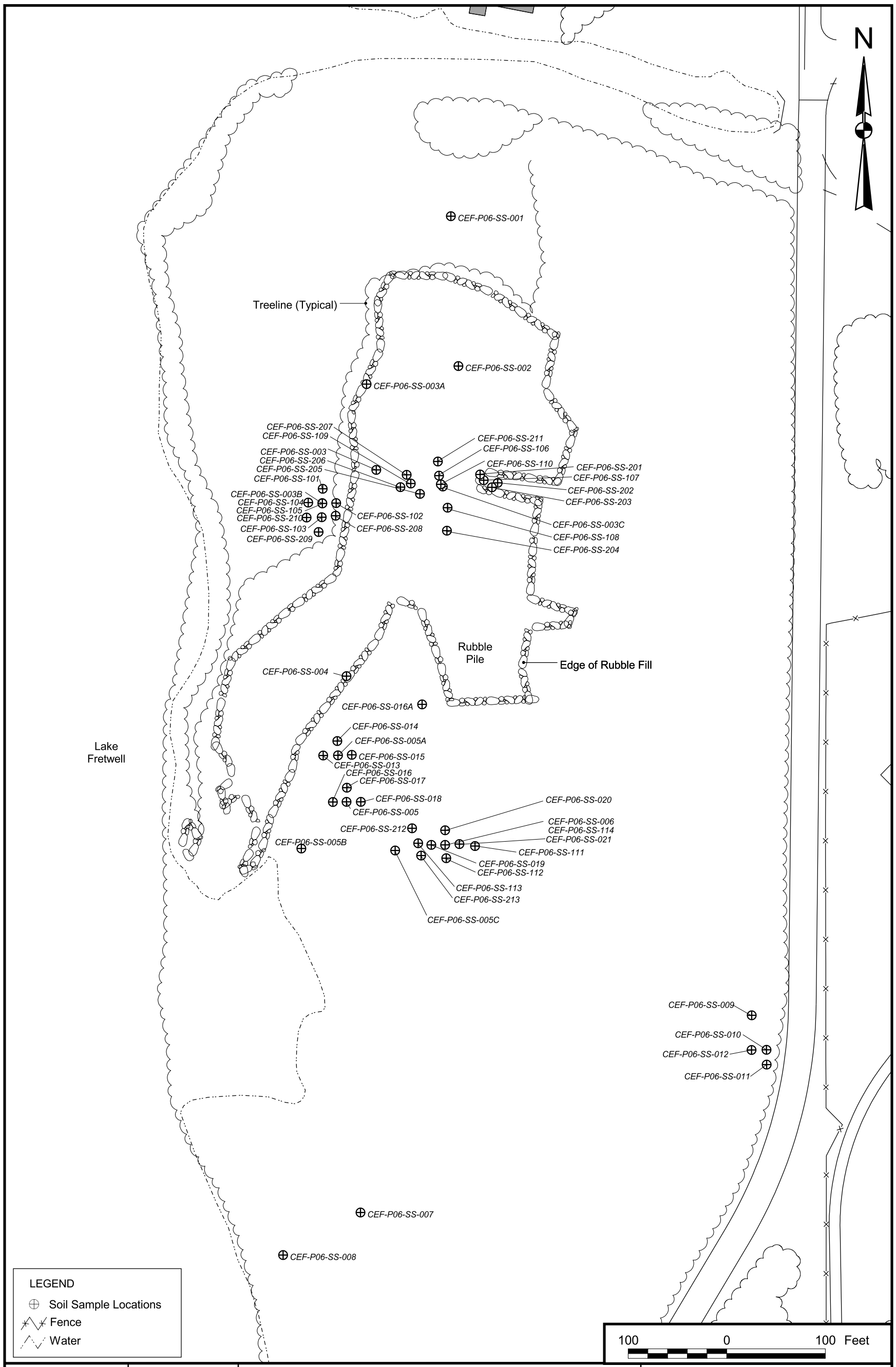
- 13 samples collected from 0 to 1 feet bgs and analyzed for PAHs.

Sampling locations from the three field investigation phases are shown on Figure 4-1. Analytical results are discussed in Section 5.0 and are included in Appendix B.

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

The samples were analyzed for PAHs (U.S. EPA Method SW-846 8310), arsenic (U.S. EPA Method SW-846 6010A), and TRPH (Florida PRO method). ACCUTEST SouthEast, a fixed-base laboratory located in Orlando, Florida, performed the analyses.

P:\GIS\CECIL\PSC06.APR 29Jun00 MJJ 4-1 Samples Layout



DRAWN BY MJJ	DATE 08Nov99	SAMPLE LOCATIONS PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY –	DATE –		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 4-1 / REV 0

5.0 NATURE AND EXTENT OF CONTAMINATION

PAH, TRPH, and arsenic analytical results for the surface soil samples collected during the three phases of the field investigation are shown on Table 5-1. This table compares soil concentrations at PSC 6 to the FDEP SCTLs for direct exposure or leachability to groundwater, whichever is the most restrictive. Arsenic concentrations were screened against the NAS Cecil Field site-specific Inorganic Background Data Set (IBDS) (HLA, 1998) concentration of 2.04 mg/kg and the FDEP SCTL of 0.8 mg/kg, as proposed in F.A.C. Chapter 62-777. However, the remediation goal for any site should never be less than the IBDS value. Because the FDEP criterion for arsenic is less than the IBDS value for arsenic, the IBDS value is regarded as the remediation goal. Laboratory data sheets are included in Appendix B. Figure 5-1 shows the locations where the sampling results exceed the remediation goals presented in Table 5-1.

Table 5-2 summarizes positive detections of PAHs, TRPH, and arsenic, including the ranges of detected concentrations, locations of the maximum detected concentrations, and averages of positive detections at each sampling location. The non-carcinogenic PAH concentrations in the duplicate sample collected from sampling location CEF-P06-SS-002-01 differ significantly from those results in the primary sample, especially for phenanthrene, where the duplicate concentration is reported as 20,300 µg/kg and the primary sample result is reported as nondetect. The significant disparity between the sample and duplicate results warrants the removal of these results from the data set. Sample data from CEF-P06-SS-002-01 and its duplicate will therefore not be used in the evaluation of PSC 6.

The results of the sampling and analysis identified the horizontal and vertical extent of PAH, TRPH, and arsenic contamination in excess of the most restrictive FDEP SCTLs or the preliminary risk evaluation (PRE) statistical analysis. Based on the results of the sampling and analysis for PAHs and the PRE statistical analysis, the remedial design (dig and haul package) was prepared for excavation of the delineated area of benzo(a)pyrene (BaP) contamination greater than 400 µg/kg. Two excavation areas totaling 9,451 square feet were delineated based on the sample locations where the analytical results were less than the PRE statistical evaluation for BaP. The estimated excavation volume based on 1-foot-deep excavations is approximately 350 cubic yards.

In addition, excavation of the delineated areas of arsenic and TRPH contamination exceeding the most restrictive FDEP SCTLs (or IBDS concentration in the case of arsenic) resulted in single excavation areas of 436 square feet and 1,725 square feet for the respective contaminants. The estimated volumes of excavation for arsenic- and TRPH-contaminated soils based on 1-foot-deep excavations are 16 cubic yards and 64 cubic yards, respectively. Limits of excavation for BaP, arsenic, and TRPH are shown on Figure 5-2.

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TABLE 5-1

SURFACE SOIL ANALYTICAL RESULTS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE I / MAY 1999			
			CEF-P06-			
	Residential Direct Exposure	Leachability to Groundwater	SS-001-01	SS-003-01	SS-003A-01	SS-003B-01
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)						
1-Methylnaphthalene	68,000	2,100	100 U	110 U	150 U	100 U
2-Methylnaphthalene	83,000	6,100	100 U	110 U	150 U	100 U
Acenaphthene	1,900,000	2,100	100 U	110 U	150 U	100 U
Acenaphthylene	1,100,000	27,000	100 U	110 U	150 U	100 U
Anthracene	18,000.00	2,500,000	100 U	110 U	150 U	100 U
Benzo(a)anthracene	1,400	3,200	15 U	17 U	22 U	15 U
Benzo(a)pyrene*	100	8,000	15 U	**106***	22 U	15 U
Benzo(b)fluoranthene	1,400	10,000	15 U	17 U	22 U	15 U
Benzo(g,h,i)perylene	2,300,000	32,000,000	15 U	**104**	22 U	15 U
Benzo(k)fluoranthene	15,000	25,000	15 U	17 U	22 U	15 U
Chrysene	140,000	77,000	15 U	**144**	22 U	**128**
Dibenzo(a,h)anthracene	100	30,000	15 U	17 U	22 U	15 U
Fluoranthene	2,900,000	1,200,000	15 U	17 U	22 U	**102**
Fluorene	2,200,000	160,000	100 U	110 U	150 U	100 U
Indeno(1,2,3-cd)pyrene	1,500	28,000	15 U	17 U	22 U	15 U
Naphthalene	40,000	17,000	100 U	110 U	150 U	100 U
Phenanthrene	2,000,000	250,000	100 U	110 U	150 U	100 U
Pyrene	2,200,000	880,000	15 U	17 U	22 U	15 U
INORGANICS (mg/kg)						
Arsenic	2.04 [2]	2.04 [2]	NA	**0.35**	**0.46**	**3**
TRPH (mg/kg)						
TRPH	340	340	NA	NA	NA	NA

TABLE 5-1

SURFACE SOIL ANALYTICAL RESULTS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE I / MAY 1999					
			CEF-P06-					
	Residential Direct Exposure	Leachability to Groundwater	SS-003C-01	SS-004-01	SS-005-01	SS-005A-01	SS-005B-01	SS-005C-01
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)								
1-Methylnaphthalene	68,000	2,100	120 U	100 U	140 U	120 U	130 U	144 U
2-Methylnaphthalene	83,000	6,100	**347**	100 U	140 U	120 U	130 U	144 U
Acenaphthene	1,900,000	2,100	120 U	100 U	140 U	120 U	130 U	144 U
Acenaphthylene	1,100,000	27,000	120 U	100 U	140 U	120 U	130 U	144 U
Anthracene	18,000.00	2,500,000	120 U	100 U	140 U	120 U	130 U	144 U
Benzo(a)anthracene	1,400	3,200	**393**	15 U	21 U	18 U	20 U	22 U
Benzo(a)pyrene*	100	8,000	**1020**	15 U	21 U	18 U	20 U	**347***
Benzo(b)fluoranthene	1,400	10,000	**1070**	15 U	21 U	18 U	20 U	**258**
Benzo(g,h,i)perylene	2,300,000	32,000,000	**580**	15 U	21 U	18 U	20 U	**124**
Benzo(k)fluoranthene	15,000	25,000	**135**	15 U	21 U	18 U	20 U	22 U
Chrysene	140,000	77,000	**624**	15 U	21 U	18 U	20 U	**396**
Dibenzo(a,h)anthracene	100	30,000	19 U	15 U	21 U	18 U	20 U	22 U
Fluoranthene	2,900,000	1,200,000	**720**	15 U	21 U	18 U	20 U	**103**
Fluorene	2,200,000	160,000	120 U	100 U	140 U	120 U	130 U	144 U
Indeno(1,2,3-cd)pyrene	1,500	28,000	**536**	15 U	21 U	18 U	20 U	**121**
Naphthalene	40,000	17,000	**247**	100 U	140 U	120 U	130 U	144 U
Phenanthrene	2,000,000	250,000	**7690**	100 U	140 U	120 U	130 U	144 U
Pyrene	2,200,000	880,000	**784**	15 U	21 U	18 U	**55**	**150**
INORGANICS (mg/kg)								
Arsenic	2.04 [2]	2.04 [2]	0.33 U	NA	NA	NA	NA	NA
TRPH (mg/kg)								
TRPH	340	340	NA	NA	NA	NA	NA	NA

TABLE 5-1

SURFACE SOIL ANALYTICAL RESULTS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE I / MAY 1999					
			CEF-P06-					
	Residential Direct Exposure	Leachability to Groundwater	SS-006-01	SS-007-01	SS-008-01	SS-009-01	SS-010-01	
							Sample	Duplicate
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)								
1-Methylnaphthalene	68,000	2,100	120 U	110 U	110 U	100 U	100 U	105 U
2-Methylnaphthalene	83,000	6,100	120 U	110 U	110 U	100 U	100 U	105 U
Acenaphthene	1,900,000	2,100	120 U	110 U	110 U	100 U	100 U	105 U
Acenaphthylene	1,100,000	27,000	120 U	110 U	110 U	100 U	100 U	105 U
Anthracene	18,000.00	2,500,000	120 U	110 U	110 U	100 U	100 U	105 U
Benzo(a)anthracene	1,400	3,200	**114**	17 U	16 U	15 U	16 U	16 U
Benzo(a)pyrene*	100	8,000	**546**	17 U	16 U	15 U	16 U	16 U
Benzo(b)fluoranthene	1,400	10,000	**557**	17 U	16 U	15 U	16 U	16 U
Benzo(g,h,i)perylene	2,300,000	32,000,000	**366**	17 U	16 U	15 U	16 U	16 U
Benzo(k)fluoranthene	15,000	25,000	**298**	17 U	16 U	15 U	16 U	16 U
Chrysene	140,000	77,000	**258**	17 U	16 U	15 U	16 U	16 U
Dibenzo(a,h)anthracene	100	30,000	18 U	17 U	16 U	15 U	16 U	16 U
Fluoranthene	2,900,000	1,200,000	**219**	17 U	16 U	15 U	16 U	16 U
Fluorene	2,200,000	160,000	120 U	110 U	110 U	100 U	100 U	105 U
Indeno(1,2,3-cd)pyrene	1,500	28,000	**416**	17 U	16 U	15 U	16 U	16 U
Naphthalene	40,000	17,000	120 U	110 U	110 U	100 U	100 U	105 U
Phenanthrene	2,000,000	250,000	120 U	110 U	110 U	100 U	100 U	105 U
Pyrene	2,200,000	880,000	**780**	17 U	16 U	15 U	16 U	16 U
INORGANICS (mg/kg)								
Arsenic	2.04 [2]	2.04 [2]	NA	NA	NA	NA	NA	NA
TRPH (mg/kg)								
TRPH	340	340	NA	NA	NA	87 U	86 U	86 U

TABLE 5-1

SURFACE SOIL ANALYTICAL RESULTS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE I / MAY 1999					
			CEF-P06-					
	Residential Direct Exposure	Leachability to Groundwater	SS-010-02	SS-011-01		SS-012-01	SS-013-01	SS-014-01
				Sample	Duplicate			
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)								
1-Methylnaphthalene	68,000	2,100	100 U	NA	NA	NA	220 U	120 U
2-Methylnaphthalene	83,000	6,100	100 U	NA	NA	NA	220 U	120 U
Acenaphthene	1,900,000	2,100	100 U	NA	NA	NA	220 U	120 U
Acenaphthylene	1,100,000	27,000	100 U	NA	NA	NA	220 U	120 U
Anthracene	18,000.00	2,500,000	100 U	NA	NA	NA	220 U	120 U
Benzo(a)anthracene	1,400	3,200	15 U	NA	NA	NA	33 U	17 U
Benzo(a)pyrene*	100	8,000	15 U	NA	NA	NA	33 U	17 U
Benzo(b)fluoranthene	1,400	10,000	15 U	NA	NA	NA	33 U	17 U
Benzo(g,h,i)perylene	2,300,000	32,000,000	15 U	NA	NA	NA	33 U	17 U
Benzo(k)fluoranthene	15,000	25,000	15 U	NA	NA	NA	**326**	17 U
Chrysene	140,000	77,000	15 U	NA	NA	NA	**849**	17 U
Dibenzo(a,h)anthracene	100	30,000	15 U	NA	NA	NA	33 U	17 U
Fluoranthene	2,900,000	1,200,000	15 U	NA	NA	NA	33 U	17 U
Fluorene	2,200,000	160,000	100 U	NA	NA	NA	220 U	120 U
Indeno(1,2,3-cd)pyrene	1,500	28,000	15 U	NA	NA	NA	33 U	17 U
Naphthalene	40,000	17,000	100 U	NA	NA	NA	220 U	120 U
Phenanthrene	2,000,000	250,000	100 U	NA	NA	NA	220 U	120 U
Pyrene	2,200,000	880,000	15 U	NA	NA	NA	33 U	17 U
INORGANICS (mg/kg)								
Arsenic	2.04 [2]	2.04 [2]	NA	NA	NA	NA	NA	NA
TRPH (mg/kg)								
TRPH	340	340	86 U	86 U	NA	NA	NA	NA

TABLE 5-1

SURFACE SOIL ANALYTICAL RESULTS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE I / MAY 1999				
			CEF-P06-				
	Residential Direct Exposure	Leachability to Groundwater	SS-015-01	SS-016-01	SS-016A-01	SS-017-01	SS-018-01
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)							
1-Methylnaphthalene	68,000	2,100	170 U	120 U	100 U	120 U	140 U
2-Methylnaphthalene	83,000	6,100	170 U	120 U	100 U	120 U	140 U
Acenaphthene	1,900,000	2,100	170 U	120 U	100 U	120 U	140 U
Acenaphthylene	1,100,000	27,000	170 U	120 U	100 U	120 U	140 U
Anthracene	18,000.00	2,500,000	170 U	120 U	100 U	120 U	140 U
Benzo(a)anthracene	1,400	3,200	26 U	19 U	16 U	18 U	21 U
Benzo(a)pyrene*	100	8,000	26 U	19 U	16 U	18 U	21 U
Benzo(b)fluoranthene	1,400	10,000	26 U	19 U	**114**	18 U	21 U
Benzo(g,h,i)perylene	2,300,000	32,000,000	26 U	19 U	16 U	18 U	21 U
Benzo(k)fluoranthene	15,000	25,000	26 U	19 U	16 U	18 U	21 U
Chrysene	140,000	77,000	26 U	19 U	16 U	18 U	21 U
Dibenzo(a,h)anthracene	100	30,000	26 U	19 U	16 U	18 U	21 U
Fluoranthene	2,900,000	1,200,000	26 U	19 U	**119**	18 U	21 U
Fluorene	2,200,000	160,000	170 U	120 U	100 U	120 U	140 U
Indeno(1,2,3-cd)pyrene	1,500	28,000	26 U	19 U	16 U	18 U	21 U
Naphthalene	40,000	17,000	170 U	120 U	100 U	120 U	140 U
Phenanthrene	2,000,000	250,000	170 U	120 U	100 U	120 U	**131**
Pyrene	2,200,000	880,000	26 U	19 U	16 U	18 U	21 U
INORGANICS (mg/kg)							
Arsenic	2.04 [2]	2.04 [2]	NA	NA	NA	NA	NA
TRPH (mg/kg)							
TRPH	340	340	NA	NA	NA	NA	NA

TABLE 5-1

SURFACE SOIL ANALYTICAL RESULTS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE I / MAY 1999				PHASE II / JUNE 1999	
			CEF-P06-					
	Residential Direct Exposure	Leachability to Groundwater	SS-019-01 Sample	SS-019-01 Duplicate	SS-020-01	SS-021-01	SS-101-01	SS-102-01
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)								
1-Methylnaphthalene	68,000	2,100	130 U	150 U	130 U	140 U	NA	NA
2-Methylnaphthalene	83,000	6,100	130 U	150 U	130 U	140 U	NA	NA
Acenaphthene	1,900,000	2,100	130 UJ	**126 J**	130 U	140 U	NA	NA
Acenaphthylene	1,100,000	27,000	130 U	150 U	130 U	140 U	NA	NA
Anthracene	18,000.00	2,500,000	130 U	150 U	130 U	140 U	NA	NA
Benzo(a)anthracene	1,400	3,200	**237 J**	**263 J**	20 U	21 U	NA	NA
Benzo(a)pyrene*	100	8,000	**518**	**691**	20 U	**218***	NA	NA
Benzo(b)fluoranthene	1,400	10,000	**717**	**605**	**156**	**271**	NA	NA
Benzo(g,h,i)perylene	2,300,000	32,000,000	**342**	**445**	20 U	21 U	NA	NA
Benzo(k)fluoranthene	15,000	25,000	**343**	**243**	20 U	**155**	NA	NA
Chrysene	140,000	77,000	**344**	**326**	20 U	**151**	NA	NA
Dibenzo(a,h)anthracene	100	30,000	19 U	22 U	20 U	21 U	NA	NA
Fluoranthene	2,900,000	1,200,000	**272**	**174**	**268**	**126**	NA	NA
Fluorene	2,200,000	160,000	130 U	150 U	130 U	140 U	NA	NA
Indeno(1,2,3-cd)pyrene	1,500	28,000	**361 J**	**459 J**	20 U	21 U	NA	NA
Naphthalene	40,000	17,000	130 U	150 U	130 U	140 U	NA	NA
Phenanthrene	2,000,000	250,000	130 U	150 U	130 U	140 U	NA	NA
Pyrene	2,200,000	880,000	**513**	**418**	**308**	**168**	NA	NA
INORGANICS (mg/kg)								
Arsenic	2.04 [2]	2.04 [2]	NA	NA	NA	NA	0.33 U	**1**
TRPH (mg/kg)								
TRPH	340	340	NA	NA	NA	NA	NA	NA

TABLE 5-1

SURFACE SOIL ANALYTICAL RESULTS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE II / JUNE 1999					
			CEF-P06-					
	Residential Direct Exposure	Leachability to Groundwater	SS-103-01	SS-104-01	SS-105-02	SS-106-01	SS-107-01	
							Sample	Duplicate
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)								
1-Methylnaphthalene	68,000	2,100	NA	NA	NA	480 U	370 U	390 U
2-Methylnaphthalene	83,000	6,100	NA	NA	NA	480 U	370 UJ	**650 J**
Acenaphthene	1,900,000	2,100	NA	NA	NA	**490**	**410 J**	**980 J**
Acenaphthylene	1,100,000	27,000	NA	NA	NA	980 U	750 U	790 U
Anthracene	18,000.00	2,500,000	NA	NA	NA	**94**	**56 J**	58 UJ
Benzo(a)anthracene	1,400	3,200	NA	NA	NA	**310**	**160 J**	**410 J**
Benzo(a)pyrene*	100	8,000	NA	NA	NA	**480**	**260 J***	**900 J**
Benzo(b)fluoranthene	1,400	10,000	NA	NA	NA	**480**	**250 J**	**1300 J**
Benzo(g,h,i)perylene	2,300,000	32,000,000	NA	NA	NA	**470**	**240 J**	**1000 J**
Benzo(k)fluoranthene	15,000	25,000	NA	NA	NA	**260**	**140 J**	**660 J**
Chrysene	140,000	77,000	NA	NA	NA	**280**	**500**	**640 J**
Dibenzo(a,h)anthracene	100	30,000	NA	NA	NA	120 U	92 UJ	**140 J**
Fluoranthene	2,900,000	1,200,000	NA	NA	NA	**540**	**330 J**	**880 J**
Fluorene	2,200,000	160,000	NA	NA	NA	96 U	74 U	78 U
Indeno(1,2,3-cd)pyrene	1,500	28,000	NA	NA	NA	260	**140 J**	**620 J**
Naphthalene	40,000	17,000	NA	NA	NA	480 U	370 U	390 U
Phenanthrene	2,000,000	250,000	NA	NA	NA	**190**	**92**	**100 J**
Pyrene	2,200,000	880,000	NA	NA	NA	**490**	**250 J**	**600 J**
INORGANICS (mg/kg)								
Arsenic	2.04 [2]	2.04 [2]	**3**	**0.27**	0.28 U	NA	NA	NA
TRPH (mg/kg)								
TRPH	340	340	NA	NA	NA	NA	NA	NA

TABLE 5-1

SURFACE SOIL ANALYTICAL RESULTS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE II / JUNE 1999					
			CEF-P06-					
	Residential Direct Exposure	Leachability to Groundwater	SS-108-01	SS-109-01	SS-110-02	SS-111-01	SS-112-01	
							Sample	Duplicate
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)								
1-Methylnaphthalene	68,000	2,100	460 U	440 U	**100**	370 U	380 U	380 U
2-Methylnaphthalene	83,000	6,100	**500**	440 U	35 U	370 U	380 U	380 U
Acenaphthene	1,900,000	2,100	**770**	**540**	35 U	470 J	380 U	380 U
Acenaphthylene	1,100,000	27,000	940 U	890 U	70 U	1200 U	770 U	780 U
Anthracene	18,000.00	2,500,000	**180**	**70**	5.2 U	56 U	57 U	57 U
Benzo(a)anthracene	1,400	3,200	**520**	**370**	**17**	**220 J**	57 UJ	**66 J**
Benzo(a)pyrene*	100	8,000	**690**	**510**	**15**	**400 J***	**130***	**180***
Benzo(b)fluoranthene	1,400	10,000	**700**	**530**	**23**	**640 J**	**150**	**170**
Benzo(g,h,i)perylene	2,300,000	32,000,000	**610**	**420**	**13**	**380 J**	**180**	**140**
Benzo(k)fluoranthene	15,000	25,000	**370**	**250**	**8.1**	**200 J**	**70**	**76**
Chrysene	140,000	77,000	**600**	**340**	5.2 U	56 U	57 UJ	**60 J**
Dibenzo(a,h)anthracene	100	30,000	120 U	110 U	8.8 U	92 U	95 U	96 U
Fluoranthene	2,900,000	1,200,000	**1200**	**720**	**28**	**490 J**	76 UJ	**81 J**
Fluorene	2,200,000	160,000	92 U	88 U	7 U	**160 J**	76 U	76 U
Indeno(1,2,3-cd)pyrene	1,500	28,000	**340**	**220**	**8.4**	**210 J**	**87**	**100**
Naphthalene	40,000	17,000	460 U	440 U	**430**	370 U	380 U	380 U
Phenanthrene	2,000,000	250,000	**450**	**210**	**8.2**	56 U	57 U	57 U
Pyrene	2,200,000	880,000	**910**	**610**	**18**	**1100 J**	**110**	**130**
INORGANICS (mg/kg)								
Arsenic	2.04 [2]	2.04 [2]	NA	NA	NA	NA	NA	NA
TRPH (mg/kg)								
TRPH	340	340	NA	NA	NA	NA	NA	NA

TABLE 5-1

SURFACE SOIL ANALYTICAL RESULTS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE II / JUNE 1999		PHASE III / JULY 1999			
			CEF-P06-					
	Residential Direct Exposure	Leachability to Groundwater	SS-113-01	SS-114-02	SS-201-01	SS-202-01	SS-203-01	
							Sample	Duplicate
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)								
1-Methylnaphthalene	68,000	2,100	380 U	380 U	370 U	350 U	360 U	370 U
2-Methylnaphthalene	83,000	6,100	380 U	380 U	**5280**	**6030**	**726 J**	370 UJ
Acenaphthene	1,900,000	2,100	**390**	380 U	**5560**	**6120**	**579 J**	370 UJ
Acenaphthylene	1,100,000	27,000	770 U	760 U	370 U	350 U	360 U	370 U
Anthracene	18,000.00	2,500,000	**100**	57 U	**1020**	**2410**	360 U	370 U
Benzo(a)anthracene	1,400	3,200	**310**	**190**	**5270**	**4450**	**405**	**654**
Benzo(a)pyrene*	100	8,000	**420**	**310***	**7640**	**4960**	**746**	**728**
Benzo(b)fluoranthene	1,400	10,000	**480**	**320**	**7020**	**4640**	**1010**	**1360**
Benzo(g,h,i)perylene	2,300,000	32,000,000	**390**	**260**	**3460**	**2050**	**311**	**431**
Benzo(k)fluoranthene	15,000	25,000	**240**	**160**	**1320**	**716**	**103 J**	**175 J**
Chrysene	140,000	77,000	**420**	**200**	**6640**	**5920**	54 U	55 U
Dibenzo(a,h)anthracene	100	30,000	96 U	96 U	56 U	**975**	54 U	55 U
Fluoranthene	2,900,000	1,200,000	**720**	310	**9910**	**13200**	**870 J**	**1690 J**
Fluorene	2,200,000	160,000	76 U	76 U	**2230**	**3370**	**169 J**	370 UJ
Indeno(1,2,3-cd)pyrene	1,500	28,000	**230**	**140**	**5900**	**3430**	**771**	**875**
Naphthalene	40,000	17,000	380 U	380 U	370 U	350 U	360 U	370 U
Phenanthrene	2,000,000	250,000	**300**	**65**	**19600**	**27200**	**567 J**	370 UJ
Pyrene	2,200,000	880,000	**690**	**370**	**8870**	**8950**	**792**	**1090**
INORGANICS (mg/kg)								
Arsenic	2.04 [2]	2.04 [2]	NA	NA	NA	NA	NA	NA
TRPH (mg/kg)								
TRPH	340	340	NA	NA	NA	NA	NA	NA

TABLE 5-1

SURFACE SOIL ANALYTICAL RESULTS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs[1]		PHASE III / JULY 1999					
			CEF-P06-					
	Residential Direct Exposure	Leachability to Groundwater	SS-204-01	SS-205-01	SS-206-01	SS-207-01	SS-208-01	
							Sample	Duplicate
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)								
1-Methylnaphthalene	68,000	2,100	380 U	500 U	570 U	580 U	NA	NA
2-Methylnaphthalene	83,000	6,100	**14400**	500 U	570 U	580 U	NA	NA
Acenaphthene	1,900,000	2,100	**16000**	500 U	570 U	580 U	NA	NA
Acenaphthylene	1,100,000	27,000	380 U	500 U	570 U	580 U	NA	NA
Anthracene	18,000.00	2,500,000	**6740**	500 U	570 U	580 U	NA	NA
Benzo(a)anthracene	1,400	3,200	**16100**	**119**	86 U	86 U	NA	NA
Benzo(a)pyrene*	100	8,000	**20800**	74 U	**993**	**539**	NA	NA
Benzo(b)fluoranthene	1,400	10,000	**15900**	**763**	**869**	86 U	NA	NA
Benzo(g,h,i)perylene	2,300,000	32,000,000	**6770**	74 U	86 U	86 U	NA	NA
Benzo(k)fluoranthene	15,000	25,000	**3500**	**122**	**159**	86 U	NA	NA
Chrysene	140,000	77,000	**32900**	74 U	86 U	86 U	NA	NA
Dibenzo(a,h)anthracene	100	30,000	**3620**	74 U	86 U	86 U	NA	NA
Fluoranthene	2,900,000	1,200,000	**51800 J**	74 U	1070	**373**	NA	NA
Fluorene	2,200,000	160,000	**7010**	500 U	570 U	580 U	NA	NA
Indeno(1,2,3-cd)pyrene	1,500	28,000	**12800**	74 U	86 U	86 U	NA	NA
Naphthalene	40,000	17,000	**7770**	500 U	570 U	580 U	NA	NA
Phenanthrene	2,000,000	250,000	**17600**	500 U	570 U	580 U	NA	NA
Pyrene	2,200,000	880,000	**31400**	**168**	1010	**237**	NA	NA
INORGANICS (mg/kg)								
Arsenic	2.04 [2]	2.04 [2]	NA	NA	NA	NA	0.5 U	0.38 U
TRPH (mg/kg)								
TRPH	340	340	NA	NA	NA	NA	NA	NA

TABLE 5-1

SURFACE SOIL ANALYTICAL RESULTS
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FDEP SCTLs(1)		PHASE III / JULY 1999				
			CEF-P06-				
	Residential Direct Exposure	Leachability to Groundwater	SS-209-01	SS-210-01	SS-211-01	SS-212-01	SS-213-01
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)							
1-Methylnaphthalene	68,000	2,100	NA	NA	490 U	400 U	490 U
2-Methylnaphthalene	83,000	6,100	NA	NA	490 U	400 U	490 U
Acenaphthene	1,900,000	2,100	NA	NA	**1390**	400 U	490 U
Acenaphthylene	1,100,000	27,000	NA	NA	490 U	400 U	490 U
Anthracene	18,000.00	2,500,000	NA	NA	490 U	400 U	490 U
Benzo(a)anthracene	1,400	3,200	NA	NA	**314**	60 U	**670**
Benzo(a)pyrene*	100	8,000	NA	NA	**909**	60 U	**848**
Benzo(b)fluoranthene	1,400	10,000	NA	NA	**1340**	60 U	**1170**
Benzo(g,h,i)perylene	2,300,000	32,000,000	NA	NA	74 U	60 U	74 U
Benzo(k)fluoranthene	15,000	25,000	NA	NA	**180**	60 U	**180**
Chrysene	140,000	77,000	NA	NA	74 U	60 U	74 U
Dibenzo(a,h)anthracene	100	30,000	NA	NA	74 U	60 U	74 U
Fluoranthene	2,900,000	1,200,000	NA	NA	**1160**	60 U	**1590**
Fluorene	2,200,000	160,000	NA	NA	490 U	400 U	490 U
Indeno(1,2,3-cd)pyrene	1,500	28,000	NA	NA	**1320**	60 U	74 U
Naphthalene	40,000	17,000	NA	NA	490 U	400 U	490 U
Phenanthrene	2,000,000	250,000	NA	NA	490 U	400 U	490 U
Pyrene	2,200,000	880,000	NA	NA	**596**	60 U	**1180**
INORGANICS (mg/kg)							
Arsenic	2.04 (2)	2.04 (2)	0.62 U	0.75 U	NA	NA	NA
TRPH (mg/kg)							
TRPH	340	340	NA	NA	NA	NA	NA

FDEP = Florida Department of Environmental Protection

(1) SCTLs = Soil Target Cleanup Levels, Florida Administrative Code (F.A.C.) 62-777 (FDEP, 1999)

(2) NAS Cecil Field Inorganic Background Data Set (HLA, 1998)

* = Excavation limits were determined using a benzo(a)pyrene concentration of greater than 400 ug/kg, determined based on statistical analysis.

Bolded values indicate a positive detection. Shaded values exceed STCLs.

TABLE 5-2

ANALYTICAL RESULTS SUMMARY
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

PARAMETER	FREQUENCY OF DETECTION	RANGE OF DETECTIONS	LOCATION OF MAXIMUM DETECTION	AVERAGE OF POSITIVE DETECTIONS
POLYCYCLIC AROMATIC HYDROCARBONS (ug/kg)				
1-Methylnaphthalene	1 / 45	100	SS-110-02	100
2-Methylnaphthalene	8 / 45	168.5 - 14400	SS-204-01	3449.81
Acenaphthene	13 / 45	117 - 16000	SS-204-01	2542.31
Anthracene	9 / 45	56 - 6740	SS-204-01	1197
Benzo(a)anthracene	20 / 45	17 - 16100	SS-204-01	1527.91
Benzo(a)pyrene	23 / 45	15 - 20800	SS-204-01	1905.54
Benzo(b)fluoranthene	25 / 45	23 - 15900	SS-204-01	1609.24
Benzo(g,h,i)perylene	19 / 45	13 - 6770	SS-204-01	927.29
Benzo(k)fluoranthene	22 / 45	8.1 - 3500	SS-204-01	431.1
Chrysene	19 / 45	44.25 - 32900	SS-204-01	2680.54
Dibenzo(a,h)anthracene	3 / 45	93 - 3620	SS-204-01	1562.67
Fluoranthene	26 / 45	28 - 51800	SS-204-01	3355.13
Fluorene	5 / 45	160 - 7010	SS-204-01	2587.8
Indeno(1,2,3-cd)pyrene	19 / 45	8.4 - 12800	SS-204-01	1458.68
Naphthalene	3 / 45	247 - 7770	SS-204-01	2815.67
Phenanthrene	14 / 45	8.2 - 27200	SS-204-01	6006.69
Pyrene	26 / 45	18 - 31400	SS-204-01	2347.77
INORGANICS (mg/kg)				
Arsenic	6 / 12	0.27 - 3	SS-003B-01/SS-103-01	1.35
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (mg/kg)				
TRPH	0 / 5	ND	-	-

ND = Not detected

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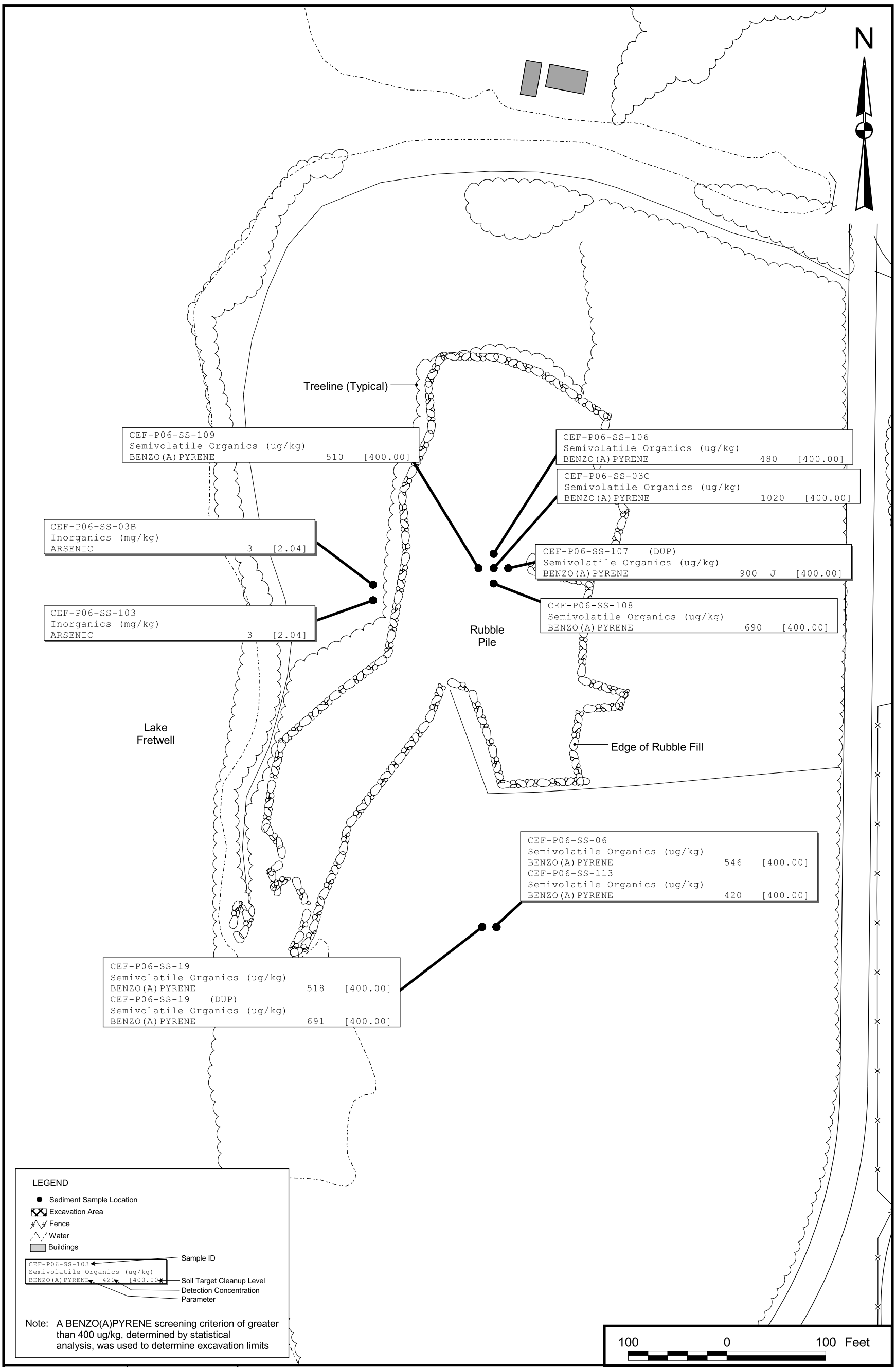

DRAWN BY MJJ	DATE 05/24/99	SUMMARY OF DETECTIONS EXCEEDING SCREENING CRITERIA PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 5-1 / REV 0

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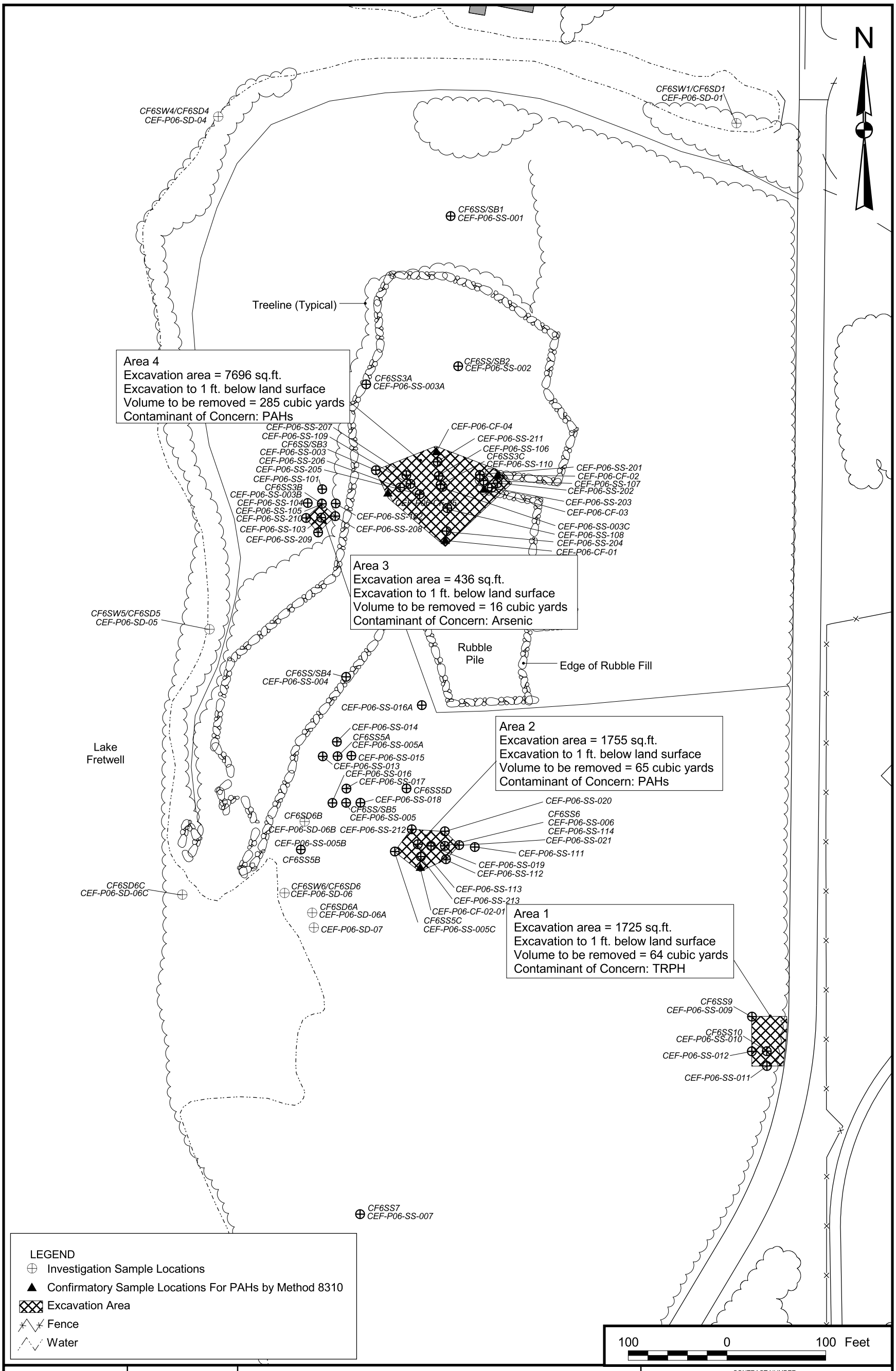

DRAWN BY MJJ	DATE 06August99	REMEDIAL ACTION PLAN SOIL EXCAVATION PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY JWL	DATE 8/6/99		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 5-2 / REV 0

6.0 PRELIMINARY RISK EVALUATIONS

6.1 HUMAN HEALTH RISKS

The results of the sampling and analysis at PSC 6 identified the extent of BaP contamination in excess of the FDEP residential SCTL of 100 µg/kg. A statistically based approach was used to determine the extent of excavation to be performed. It was determined that not all samples with BaP concentrations greater than the FDEP residential SCTL 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 the BaP in the soil is a result of exposure to an area, not an individual sample location. Therefore, the entire data set was used to determine a post-excavation exposure concentration that would be less than the FDEP residential SCTL for BaP.

The first step of this statistically based approach determined the distribution of the BaP data. Performance of a Shapiro-Wilk test indicated that the BaP data at PSC 6 were lognormally distributed. Therefore, the exposure concentration for BaP at PSC 6 would be represented best by the 95% upper confidence level (UCL) of the geometric mean. With a geometric mean concentration of 110 µg/kg and a geometric standard deviation of 3.2 µg/kg (36 samples), the UCL is 347 µg/kg. This UCL or exposure concentration is greater than the FDEP residential SCTL.

The second step of this statistically based approach used an iterative process to determine above which BaP concentration the soil must be removed to achieve a UCL less than or equal to the FDEP residential SCTL. In theory, the sampling locations with the highest BaP concentrations would be excavated and replaced with clean fill. The excavated sample points were assumed to be replaced with clean fill having a BaP concentration of 50 µg/kg, a value equal to one-half the detection limit. The data set was evaluated in a stepwise manner by replacing the highest concentration with the clean fill concentration, then recalculating the UCL. When the UCL was less than the FDEP residential SCTL, the calculations were stopped. This iterative process indicated that soil with BaP concentrations greater than 400 µg/kg would require removal to achieve a UCL of 97.2 µg/kg, less than the FDEP criterion of 100 µg/kg. This corresponds to a risk level less than the target risk of 1E-06. The area with BaP concentrations greater than 400 µg/kg are shown on Figure 5-2. Some samples within the shaded area have concentrations less than 400 µg/kg; these were included to facilitate definition of the excavation area. The calculations are provided in Table 6-1.

6.2 ECOLOGICAL RISKS

A screening ecological risk assessment was conducted to evaluate the potential risks to ecological receptors at PSC 6. The ecological assessment was conducted in accordance with the guidance described by U.S. EPA (U.S. EPA, 1997) and U.S. EPA Region IV (U. S. EPA, 1998, U.S. EPA, 1999) and the Navy (Department of the Navy, 1998) for steps 1-3a of ecological risk assessments. Steps 1-3a consist of the following:

Step 1	Screening-Level Problem Formulation and Ecological Effects Evaluation
Step 2	Screening-Level Exposure Estimate and Risk Evaluation
Step 3a	Refinement of Preliminary Contaminants of Concern

6.2.1 Problem Formulation and Ecological Effects Evaluation

Habitats at PSC 6 consist of planted pine flatwoods, disturbed uplands, and a depression-emergent marsh. The western edge of the site is adjacent to Lake Fretwell. The small marsh is connected to Lake Fretwell by a culvert and is dominated by cattail, rushes, and sedges, with buttonbush and elderberry along the perimeter of the marsh. Most of the habitat at PSC 6 consists of planted pine flatwoods. Trees within the pine flatwoods include slash pine, sweet gum, red maple, water oak, black cherry, sweet bay, and magnolia. Common understory species include palmetto and muscadine grape. The disturbed uplands are dominated by Spanish needle, muscadine grape, dog fennel, rattlebox, and various other weeds and shrubs. Animal receptors that utilize the site consist of many species typically found in wooded habitats throughout NAS Cecil Field.

The nature and extent of contamination were discussed in Section 5.0. Animals could be exposed to soil contaminants through the ingestion of contaminated food items. Animals can also incidentally ingest soil while grooming fur, preening feathers, digging, grazing close to the soil, or feeding on items to which soil has adhered (such as roots and tubers). Terrestrial vegetation could be exposed to contaminants via direct aerial deposition and root translocation. Exposure to contaminants in the soil via dermal contact may occur but is unlikely to represent a major exposure pathway because fur, feathers, and chitinous exoskeletons minimize transfer of contaminants across dermal tissue.

All analytes detected in surface soil samples collected from areas outside the remediation area were assessed. The objective of this assessment was to determine if exposure to contaminants present in surface soil on the site is likely to result in declines in ecological receptor populations.

6.2.2 Exposure Estimate and Risk Evaluation

Contaminant concentrations in surface soils were compared to conservative ecological screening values established by U.S. EPA Region IV (U. S. EPA, 1998, U.S. EPA, 1999).

6.2.3 Refinement of Preliminary Contaminants of Concern

Subsequent to the initial screening, other factors were considered to further refine contaminants of potential concern (COPCs). These factors included background data for inorganics, toxicological evaluation of COPCs, frequency of detection, and comparisons of COPCs to alternate guidelines (U.S. EPA, 1997; Department of the Navy, 1999). In addition, COPCs that could potentially bioaccumulate and/or biomagnify were investigated by comparing toxic doses to modeled ingested doses for representative receptors. The methods used to model the doses that representative receptors could receive, as well as the selection of toxicity reference values (TRVs), are described in Appendix C.

6.2.4 Results and Discussion

The results of the "screening-level" comparisons are presented in Table 6-2. Analytes with maximum concentrations that exceeded U.S. EPA Region IV surface soil screening values consisted of 13 PAHs, four pesticides, and five metals. In addition, screening values were not available for three phthalates and one VOC that were detected in PSC 6 soils. Results of food chain modeling using maximum and average concentrations are presented in Tables 6-3 and 6-4. Chemicals with concentrations that exceeded Region IV screening values and chemicals for which screening values were not available are discussed below.

Volatile Organic Compounds

No volatile organic compounds had maximum concentrations greater than U.S. EPA Region IV ecological screening values, but a screening value was not available for acetone, which was detected in two samples. Because acetone is a common laboratory contaminant and because it was detected at relatively low concentrations (14 and 51 µg/kg), ecological risks from acetone at PSC 6 are considered to be negligible.

Semivolatile Organic Compounds

Maximum concentrations of 13 PAH compounds exceeded U.S. EPA Region IV ecological screening values, and screening values were not available for three phthalates. Phthalates were detected in only one sample (CF6SS7). Phthalates are common environmental contaminants due to their use in plastics. Phthalates can also be an artifact of the sampling and/or analytical methods. The value for total detected

phthalates in sample CF6SS7 (i.e., the sum of all detected concentrations) was 1,060 µg/kg. This value is much less than the Dutch "intervention" value for total phthalates (60,000 µg/kg) [Ministry of Housing, Spatial Planning and Environment (MHSPE), 1994]. Although the paucity of toxicity data precludes a complete assessment of phthalates, their infrequent detection at relatively low concentrations (140 to 510 µg/kg) indicates that phthalates at PSC 6 do not pose significant potential risks.

Maximum hazard quotient (HQ) values for most PAHs were relatively low. PAHs with the highest concentrations were fluoranthene (HQ = 49), pyrene (HQ = 38), and chrysene (HQ = 13). Maximum concentrations of these three compounds (as well as five other PAHs) were in sample CF6SS5, collected in 1997. Concentrations of these three compounds were not substantially elevated in other samples.

With the exception of anthracene, the ecological screening values for all PAHs shown in Table 6-2 are Dutch "A" values indicative of "background concentrations in soil or detection limits" (Beyer, 1990). Dutch "B" values indicative of "moderate soil contamination that requires additional study" are 10,000 µg/kg for pyrene and fluoranthene, 5,000 µg/kg for phenanthrene and naphthalene, and 1,000 µg/kg for benzo(a)pyrene (Beyer, 1990). Ecological screening values for chrysene and some other PAHs are not available, but the "B" value for benzo(a)pyrene (a surrogate for chrysene and other high-molecular weight PAHs) is 1,000 µg/kg. All concentrations of PAHs (except the maximum concentration of chrysene) are well below the B values. Chrysene concentrations exceeded 1,000 µg/kg only in sample CF6SS5 (1,300 µg/kg).

Previous studies have shown that PAH compounds do not appear to have significantly migrated from PSC 6 into Lake Fretwell (TtNUS, 1999a). In addition, PAH compounds do not accumulate in animal tissue or biomagnify in the food web at the concentrations measured at PSC 6, and, therefore, risks to upper level receptors from these compounds are negligible. For this reason, phthalates and PAHs were not included in food chain modeling, as per U.S. EPA Region IV guidance (Wellman, 2000). In summary, potential ecological risks from PAH compounds are primarily limited to the vicinity of sample CF6SS5, where risks to plants and to soil invertebrates such as earthworms might exist. These potential risks, however, appear to be minimal.

Pesticides

Maximum concentrations of dieldrin, DDD, DDE, and DDT exceeded their ecological screening values. Dieldrin was detected in only one sample, and its HQ (2.8) was relatively low. Maximum HQs for DDD (2.0), DDE (5.6), and DDT (3.4) were also relatively low. The HQs for DDD, DDE, and DDT are based on U.S. EPA Region IV ecological screening values, which are "target values" established by the Dutch government (MHSPE, 1994). The Dutch "intervention" value for each of the same three compounds is 4,000 µg/kg (MHSPE, 1994). Although concentrations in some samples exceeded the Dutch target

values, they were much less than the 4,000 µg/kg intervention value (the maximum concentration of DDE was 14 µg/kg). The value for total organochlorinated pesticides (i.e., the sum of all detected concentrations) was greatest in sample CF6SS5, at 32.2 µg/kg. This value is well below the "A" value (100 µg/kg) indicative of "background concentrations in soil or detection limits" for total organochlorinated pesticides (Beyer, 1990) and is much less than the "B" value (1,000 µg/kg) indicative of "moderate soil contamination that requires additional study" (Beyer, 1990).

All food chain HQs for dieldrin were less than 1.0, indicating negligible risks to upper level receptors at the concentrations detected at PSC 6. Some food chain HQs for DDT and its metabolites DDE and DDD exceeded 1.0 (maximum HQ = 15.2) for the robin, hawk, and woodcock. However, these HQs were based on the assumption that these receptors forage exclusively at PSC 6. This site comprises only a miniscule portion of the home ranges of these three species and of the other birds represented by the robin, hawk, and woodcock. The HQs in Tables 6-3 and 6-4 would be less than 1.0 if area-use factors were incorporated into the food chain model. Food chain HQs for representative mammals were less than 1.0 for all pesticides.

Because maximum concentrations of DDT, DDD, DDD, and dieldrin only slightly exceeded the most conservative ecological screening values available and because food chain HQs were not elevated, concentrations of pesticides detected in surface soil at PSC 6 are not believed to pose significant risks to ecological receptors.

Inorganics

Maximum concentrations of aluminum, chromium, iron, vanadium, and zinc exceeded U.S. EPA Region IV screening values. The maximum food chain HQ for aluminum was elevated (shrew HQ = 121). HQs derived through food chain modeling are typically high for aluminum, partially as a result of how the aluminum TRVs were derived. The mammal no-observed-adverse-effects level (NOAEL) and lowest-observed-adverse-effects level (LOAEL), which are used as TRVs, were based on a study where aluminum chloride ($AlCl_3$) was administered to mice via drinking water (Sample et al., 1996). Aluminum chloride is much more bioavailable than aluminum compounds typically found in the environment [Agency for Toxic Substances and Disease Registry (ATSDR), 1997], and, therefore, the elevated shrew HQs are partially a reflection of the low TRVs that were obtained from the aluminum chloride study. The extent of the uncertainties inherent in the food chain model for aluminum are uncertain. However, the maximum aluminum concentration in soil (2,960 mg/kg) was less than the NAS Cecil IBDS value representative of background soil concentrations (4,430 mg/kg). Therefore, the concentrations of aluminum in PSC 6 soil are not due to site-related contamination.

The ecological screening value for chromium shown in Table 6-2 is for hexavalent chromium (Efroymson et al., 1997). Trivalent chromium, however, is the predominant form of this metal in most soils and is not bioavailable (Eisler, 1986). The screening value for trivalent chromium is 10 mg/kg (Efroymson et al., 1997). The maximum concentration of chromium (5.3 mg/kg) was less than this value and was also less than the IBDS concentration for chromium (7.75 mg/kg). The maximum concentration of vanadium (5.7 mg/kg) was also less than its IBDS value (6.3 mg/kg). Thus, concentrations of chromium and vanadium are not due to site-related contamination.

IBDS values for iron (1,490 mg/kg) and zinc (37 mg/kg) were exceeded in only one sample (CF6SS9), and the maximum concentration of zinc (51 mg/kg) only slightly exceeded the conservative ecological screening value of 50 mg/kg. In addition, the maximum concentration of zinc was less than the screening value established for the protection of soil micro organisms (100 mg/kg) and earthworms (200 mg/kg) (Efroymson, et al, 1997) and was well below the Dutch target value of 140 mg/kg (MHSPE, 1994). Some food chain HQs for iron and zinc exceeded 1.0, but the HQs were relatively low (Tables 6-3 and 6-4). For the above reasons, iron and zinc in surface soils are not believed to pose significant potential risks to ecological receptors.

Summary

The concentrations of contaminants (VOCs, SVOCs, pesticides, and inorganics) detected at the site do not pose a significant potential risk to ecological receptors.

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TABLE 6-1

BENZO(A) PYRENE DELINEATION
PSC 6, LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

SAMPLE	RESULTS	ALL DATA		POST-REMEDIATION RESULTS	
		Normal	Log	Normal	Log
CEF-P06-SS-03C-01	1020	1020	6.928	50	3.912
CEF-P06-SS-108-01	690	690	6.537	50	3.912
CEF-P06-SS-107-01	580	580	6.363	50	3.912
CEF-P06-SS-006-01	546	546	6.303	50	3.912
CEF-P06-SS-019-01	518	518	6.250	50	3.912
CEF-P06-SS-109-01	510	510	6.234	50	3.912
CEF-P06-SS-106-01	480	480	6.174	50	3.912
CEF-P06-SS-113-01	420	420	6.040	50	3.912
CEF-P06-SS-111-01	400	400	5.991	400	5.991
CEF-P06-SS-05C-01	347	347	5.849	347	5.849
CEF-P06-SS-114-01	310	310	5.737	310	5.737
CEF-P06-SS-021-01	218	218	5.384	218	5.384
CEF-P06-SS-112-01	155	155	5.043	155	5.043
CEF-P06-SS-003-01	106	106	4.663	106	4.663
CEF-P06-SS-001-01	100 U	50	3.912	50	3.912
CEF-P06-SS-002-01	100 U	50	3.912	50	3.912
CEF-P06-SS-03A-01	100 U	50	3.912	50	3.912
CEF-P06-SS-03B-01	100 U	50	3.912	50	3.912
CEF-P06-SS-004-01	100 U	50	3.912	50	3.912
CEF-P06-SS-005-01	100 U	50	3.912	50	3.912
CEF-P06-SS-05A-01	100 U	50	3.912	50	3.912
CEF-P06-SS-05B-01	100 U	50	3.912	50	3.912
CEF-P06-SS-007-01	100 U	50	3.912	50	3.912
CEF-P06-SS-008-01	100 U	50	3.912	50	3.912
CEF-P06-SS-009-01	100 U	50	3.912	50	3.912
CEF-P06-SS-010-01	100 U	50	3.912	50	3.912
CEF-P06-SS-013-01	100 U	50	3.912	50	3.912
CEF-P06-SS-014-01	100 U	50	3.912	50	3.912
CEF-P06-SS-015-01	100 U	50	3.912	50	3.912
CEF-P06-SS-016-01	100 U	50	3.912	50	3.912
CEF-P06-SS-016A-01	100 U	50	3.912	50	3.912
CEF-P06-SS-017-01	100 U	50	3.912	50	3.912
CEF-P06-SS-018-01	100 U	50	3.912	50	3.912
CEF-P06-SS-020-01	100 U	50	3.912	50	3.912
CEF-P06-SS-010-02	100 U	50	3.912	50	3.912
CEF-P06-SS-110-01	15	15	2.708	15	2.708

Average	204.58	4.68	83.36	4.13
STD	244.45	1.12	89.74	0.66
Count	36	36	36	36
t/H	1.690	3.45	1.690	2.05
UCL	273.4	387.5	108.6	97.2

TABLE 6-2

SURFACE SOIL ANALYTES COMPARED TO ECOLOGICAL SCREENING VALUES
PSC 6 – LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Parameter	Frequency of Detection	Range of Detected Concentrations	Mean Concentration	Location of Maximum Concentration	U.S. EPA Region IV ESV[a]	Maximum Hazard Quotient[b]
VOLATILE ORGANIC COMPOUNDS (µg/kg)						
Acetone	2 / 7	14 - 51	13.8	CF6SS2	NA	NA
Toluene	1 / 7	5	6	CF6SS9	50	0.10
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)						
1-Methylnaphthalene	2 / 33	49 - 120	86.6	CEF06-02-01	100[c]	**1.20**
Acenaphthene	1 / 40	470	119.4	CEF-P06-SS-111-01	20000	0.02
Anthracene	2 / 40	2 - 4	103.1	CEF06-02-01	100	0.04
Benzo(a)anthracene	9 / 40	10 - 650	74.6	CF6SS5	100[c]	**6.50**
Benzo(a)pyrene	13 / 40	2 - 400	86.7	CEF-P06-SS-111-01 & CF6SS5	100	**4.00**
Benzo(b)fluoranthene	16 / 40	17 - 920	107.8	CF6SS5	100[c]	**9.20**
Benzo(g,h,i)perylene	10 / 40	8 - 380	71.8	CEF-P06-SS-111-01	100[c]	**3.80**
Benzo(k)fluoranthene	10 / 40	6 - 360	81.1	CF6SS5	100[c]	**3.60**
Bis(2-Ethylhexyl)phthalate	1 / 7	410	290	CF6SS7	NA	NA
Butylbenzyl phthalate	1 / 7	140	251.4	CF6SS7	NA	NA
Chrysene	12 / 40	2 - 1300	122.0	CF6SS5	100[c]	**13.00**
Di-n-octyl phthalate	1 / 7	510	304.3	CF6SS7	NA	NA
Dibenzo(a,h)anthracene	1 / 40	41	74.4	CEF006CS004	100[c]	0.41
Fluoranthene	12 / 40	20 - 4900	211.7	CF6SS5	100	**49.00**

TABLE 6-2

SURFACE SOIL ANALYTES COMPARED TO ECOLOGICAL SCREENING VALUES
PSC 6 – LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Parameter	Frequency of Detection	Range of Detected Concentrations	Mean Concentration	Location of Maximum Concentration	U.S. EPA Region IV ESV[a]	Maximum Hazard Quotient[b]
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg) (continued)						
Fluorene	1 / 40	160	106.5	CEF-P06-SS-111-01	100[c]	**1.60**
Indeno(1,2,3-cd)pyrene	11 / 40	2 - 210	66.7	CEF-P06-SS-111-01	100[c]	**2.10**
Naphthalene	1 / 40	590	126.8	CEF06-02-01	100	**5.90**
Phenanthrene	3 / 40	44 - 310	96.3	CF6SS5	100	**3.10**
Pyrene	15 / 40	12 - 3800	193.2	CF6SS5	100	**38.00**
PESTICIDES (µg/kg)						
4,4'-DDD	2 / 7	0.56 - 5.1	3.52	CF6SS5	2.5	**2.04**
4,4'-DDE	5 / 7	0.62 - 14	4.81	CF6SS5	2.5	**5.6**
4,4'-DDT	4 / 7	0.25 - 8.4	3.85	CF6SS2	2.5	**3.36**
Aldrin	2 / 7	0.21 - 0.66	1.50	CF6SS5	2.5	0.26
Alpha-Chlordane	2 / 7	0.62 - 4.6	2.12	CF6SS5	100[d]	0.046
Dieldrin	1 / 7	1.4	1.99	CF6SS9	0.5	**2.80**
Endosulfan sulfate	1 / 7	0.64	3.14	CF6SS8	100[d]	0.01
Endrin ketone	1 / 7	0.22	3.06	CF6SS5	1[e]	0.22
Gamma Chlordane	2 / 7	0.74 - 5	2.19	CF6SS5	100[d]	0.05
Heptachlor	1 / 7	0.16	1.57	CF6SS2	100[d]	0.002

TABLE 6-2

SURFACE SOIL ANALYTES COMPARED TO ECOLOGICAL SCREENING VALUES
PSC 6 – LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Parameter	Frequency of Detection	Range of Detected Concentrations	Mean Concentration	Location of Maximum Concentration	U.S. EPA Region IV ESV[a]	Maximum Hazard Quotient[b]
PESTICIDES (µg/kg) (continued)						
Heptachlor epoxide	1 / 7	0.22	1.56	CF6SS8	100[d]	0.002
Methoxychlor	2 / 7	3.6 - 9.6	9.31	CF6SS8	100[d]	0.096
INORGANICS (mg/kg)						
Aluminum	7 / 7	689 - 2960	1714.857	CF6SS9	50	**59.20**
Antimony	1 / 7	1.1	0.4793	CF6SS9	3.5	0.31
Arsenic	4 / 14	0.27 - 1	0.3936	CEF-P06-SS-102-01	10	0.1
Barium	7 / 7	2.4 - 13.7	7.5857	CF6SS9	165	0.08
Cadmium	2 / 7	0.5 - 0.56	0.24	CF6SS9	1.6	0.35
Chromium	7 / 7	1.1 - 5.3	2.7286	CF6SS9	0.4	**13.25**
Cobalt	3 / 7	0.3 - 0.47	0.235	CF6SS9	20	0.02
Copper	6 / 7	0.33 - 8.5	2.9029	CF6SS7	40	0.21
Cyanide	2 / 7	0.1 - 0.15	0.06	CF6SS9	0.9	0.17
Iron	7 / 7	315 - 2140	821	CF6SS9	200	**10.70**
Lead	7 / 7	3.7 - 35.2	15.4286	CF6SS9	50	0.70
Manganese	7 / 7	2.6 - 33.8	12.5143	CF6SS9	100	0.34
Mercury	1 / 7	0.09	0.0407	CF6SS9	0.1	0.9

TABLE 6-2

SURFACE SOIL ANALYTES COMPARED TO ECOLOGICAL SCREENING VALUES
PSC 6 – LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Parameter	Frequency of Detection	Range of Detected Concentrations	Mean Concentration	Location of Maximum Concentration	U.S. EPA Region IV ESV[a]	Maximum Hazard Quotient[b]
INORGANICS (mg/kg) (continued)						
Nickel	5 / 7	0.64 - 2.1	0.9929	CF6SS5	30	0.07
Silver	1 / 7	1.3	0.2936	CF6SS7	2	0.65
Thallium	1 / 7	0.94	0.5143	CF6SS4	1	0.94
Vanadium	7 / 7	0.85 - 5.7	2.95	CF6SS5	2	**2.85**
Zinc	7 / 7	4.2 - 51	17.3571	CF6SS9	50	**1.02**

NA Not available
a U. S. EPA Region IV Ecological Screening Value (ESV)
b Hazard Quotient = Maximum Concentration ÷ ESV; Bolded values indicate HQ > 1.0
c Benzo(a)pyrene used as a surrogate
d ESV for organochlorinated pesticide
e Endrin used as a surrogate

TABLE 6-3

RESULTS OF FOOD CHAIN MODELING
MAXIMUM CONCENTRATIONS
PSC 6 - LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Ecological Chemical of Potential Concern	Shrew		Robin		Hawk		Woodcock		Fox		Mouse	
	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ
Pesticides												
4,4'-DDD	1.05E-02	2.10E-03	**1.97E+00**	1.97E-01	4.04E-01	4.04E-02	**4.30E+00**	4.30E-01	1.37E-03	2.74E-04	5.27E-05	1.05E-05
4,4'-DDE	1.53E-02	3.06E-03	**7.06E+00**	7.06E-01	**1.39E+00**	1.39E-01	**1.52E+01**	**1.52E+00**	4.79E-03	9.58E-04	1.45E-04	2.89E-05
4,4'-DDT	3.45E-03	6.90E-04	**1.38E+00**	1.38E-01	2.36E-01	2.36E-02	**2.88E+00**	2.88E-01	8.56E-04	1.71E-04	8.68E-05	1.74E-05
Dieldrin	2.30E-01	2.30E-02	3.92E-02	3.92E-03	6.85E-04	6.85E-05	8.57E-02	8.57E-03	2.73E-03	2.73E-04	9.59E-04	9.59E-05
Inorganics												
Aluminum	**1.21E+02**	**1.21E+01**	**1.66E+00**	1.66E-01	6.09E-03	6.09E-04	**3.15E+00**	3.15E-01	**5.05E+00**	5.05E-01	**8.84E+00**	8.84E-01
Chromium	3.25E-01	3.25E-02	7.47E-01	1.49E-01	2.55E-02	5.11E-03	**1.55E+00**	3.09E-01	1.24E-02	1.24E-03	9.62E-03	9.62E-04
Iron	**2.29E+01**	**2.29E+00**	**1.91E+01**	**1.91E+00**	**2.39E+00**	2.39E-01	**1.65E+01**	**1.65E+00**	**4.71E+00**	4.71E-01	**1.19E+01**	**1.19E+00**
Vanadium	**1.97E+00**	1.97E-01	2.87E-02	2.87E-03	1.47E-04	1.47E-05	2.78E-02	2.78E-03	9.12E-02	9.12E-03	1.59E-01	1.59E-02
Zinc	5.09E-01	2.55E-01	**4.36E+00**	4.83E-01	**1.47E+00**	1.63E-01	**8.07E+00**	8.93E-01	1.29E-01	6.43E-02	3.35E-02	1.67E-02

NOAEL = No-observed-adverse-effects level
LOAEL = Lowest-observable-adverse-effects level
HQ = Hazard quotient
Bolded values indicate HQs > 1

TABLE 6-4

RESULTS OF FOOD CHAIN MODELING
MEAN CONCENTRATIONS
PSC 6 - LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Ecological Chemical of Potential Concern	Shrew		Robin		Hawk		Woodcock		Fox		Mouse	
	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ
Pesticides/PCBs												
4,4'-DDD	6.80E-03	1.36E-03	**1.27E+00**	1.27E-01	2.62E-01	2.62E-02	**2.78E+00**	2.78E-01	8.88E-04	1.78E-04	3.55E-05	7.10E-06
4,4'-DDE	5.24E-03	1.05E-03	**1.58E+00**	1.58E-01	3.12E-01	3.12E-02	**3.41E+00**	3.41E-01	1.07E-03	2.14E-04	4.96E-05	9.92E-06
4,4'-DDT	1.58E-03	3.16E-04	4.40E-01	4.40E-02	7.51E-02	7.51E-03	9.15E-01	9.15E-02	2.72E-04	5.44E-05	3.98E-05	7.96E-06
Dieldrin	3.27E-01	3.27E-02	5.57E-02	5.57E-03	9.73E-04	9.73E-05	1.22E-01	1.22E-02	3.88E-03	3.88E-04	1.36E-03	1.36E-04
Inorganics												
Aluminum	**7.04E+01**	**7.04E+00**	9.63E-01	9.63E-02	3.53E-03	3.53E-04	**1.83E+00**	1.83E-01	**2.93E+00**	2.93E-01	**5.12E+00**	5.12E-01
Chromium	1.66E-01	1.66E-02	3.81E-01	7.62E-02	1.30E-02	2.60E-03	7.88E-01	1.58E-01	6.32E-03	6.32E-04	4.90E-03	4.90E-04
Iron	**8.80E+00**	8.80E-01	**7.33E+00**	7.33E-01	9.19E-01	9.19E-02	**6.33E+00**	6.33E-01	**1.81E+00**	1.81E-01	**4.56E+00**	4.56E-01
Vanadium	**1.02E+00**	1.02E-01	1.49E-02	1.49E-03	7.60E-05	7.60E-06	2.78E-02	2.78E-03	4.72E-02	4.72E-03	8.21E-02	8.21E-03
Zinc	1.74E-01	8.69E-02	**1.49E+00**	1.65E-01	5.03E-01	5.57E-02	**2.75E+00**	3.05E-01	4.39E-02	2.19E-02	1.14E-02	5.71E-03

NOAEL = No-observed-adverse-effects level
LOAEL = Lowest-observable-adverse-effects level
HQ = Hazard quotient
Bolded values indicate HQs > 1

7.0 REMEDIAL ACTIONS

The remedial action at PSC 6 was conducted by the South Carolina Research Authority (SCRA) Environmental Enterprise Group (EEG), formerly known as the Environmental Detachment Charleston (Detachment). Construction activities for PSC 6 were conducted from August 6, 1999 through August 18, 1999, and the results of this effort are documented in the final Completion Report, Interim Remedial Measure, Site 6 and 8, submitted by SCRA EEG on December 8, 1999. SCRA EEG characterized, transported, and disposed of approximately of 90 tons of TRPH-contaminated soil from Area 1, 99 tons of BaP-contaminated soil from Area 2, 23 tons of arsenic-contaminated soil from Area 3, and 420 tons of BaP-contaminated soil from Area 4. To delineate the boundaries of excavation prior to removal activities, five samples for PAH analysis were collected in Area 4 and one sample for PAH analysis was collected in Area 2. Analytical results from these samples were below FDEP SCTLs, and, therefore, the samples were used for delineation. No additional confirmation sampling was conducted or required at these or the other areas at the site.

After the removal was conducted, the site was restored to pre-excavation conditions. The material used to backfill the excavation was from an uncontaminated source capable of supporting vegetation similar to that removed from the site. Detailed information on the construction activities, including photographs, copies of the soil manifests, certificates of disposal, certificate of clean fill, and the Analytical Laboratory Reports for Confirmation Soil Samples, are provided in the Construction Completion Report (SCRA, 1999).

All excavated soil was transported to Soil Remediation, Inc., a Subtitle C Solid Waste Disposal Facility located in Ray City, Georgia. A final inspection was performed on August 18, 1999. Based on this inspection, the site has been returned to its pre-remedial action condition. No unacceptable human health or ecological risks are expected at the site with regard to soil, and no further action for soils is warranted.

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 CONCLUSIONS

Conclusions pertaining to PSC 6, Lake Fretwell Rubble Disposal Area, are as follows:

- Areas of soil where PAHs were detected at concentrations in excess of the PRE statistical analysis have been excavated and disposed at a permitted solid waste disposal facility. Areas of soil where arsenic was detected at concentrations exceeding the site specific IBDS concentration have been excavated and disposed at a permitted solid waste disposal facility. Areas of soil where TRPH was detected at concentrations in excess of the FDEP SCTLs have been excavated and disposed at a permitted solid waste disposal facility.

- The excavated areas were restored to pre-excavation conditions with uncontaminated backfill materials.

- PAHs in the soil samples collected outside the excavated areas were not detected in excess of the PRE statistical analysis. Arsenic in the soil samples collected outside the excavated areas was not detected at concentrations exceeding the site-specific IBDS concentration of arsenic. TRPH in the soil samples collected outside the excavated areas was not detected at concentrations in excess of the FDEP SCTLs.

- Contaminants in soil do not pose significant ecological risks.

- Since the removal action has been conducted, no contaminants or pathways pose a threat to public health, welfare, or the environment.

8.2 RECOMMENDATIONS

The removal action conducted at PSC 6 is protective of human health and the environment and has utilized permanent solutions for this site. Since the removal action is complete, no further action is warranted. The final recommendation for PSC 6, Lake Fretwell Rubble Disposal Area, is no further action.

It is also recommended that the color classification of PSC 6 be changed from Yellow to Dark Green to denote that releases of hazardous substances have occurred, and remedial actions to protect human health and the environment have been taken.

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APPENDIX A

ANALYTICAL DATA FROM PREVIOUS INVESTIGATIONS

ABB Environmental Services, Inc.
2590 Executive Center Circle East
Tallahassee, FL 32301
Attn : Maria Pijnenburg

RE: On-Site Analysis at the NAS Cecil Field Site
Jacksonville, Florida
PACE Project Number: 930121.600

Date Recieved:	4/21/93	4/21/93	4/21/93	4/21/93
Date Analyzed :	4/29/93	4/30/93	4/30/93	4/29/93
Time Analyzed :	19:12	10:47	13:12	18:36
Analyzed By :	RJS	RJS	RJS	RJS
Sample Number :	10 700555	10 700556	10 700561	10 700554
Run Number :	ABB429C,6	ABB430B,4	ABB430B,8	ABB429C,5
Sample Name :	SS-6-2 (0-2)	SD-6-3 (0-2)	SS-6-6 (0-2)	SS-6-1 (0-2)

FIELD ANALYSIS: LOW LEVEL SOIL: 8020

Volatile Organics in Soil-Modified Method 8010

	CAS Number	MDL (mg/kg)	Units				
Methylene Chloride		0.002	mg/Kg	ND	ND	ND	ND
Benzene		0.002	mg/Kg	ND	ND	ND	ND
Toluene		0.002	mg/Kg	ND	ND	ND	ND
Chlorobenzene		0.002	mg/Kg	ND	ND	ND	ND
Ethyl Benzene		0.002	mg/Kg	0.004	ND	ND	0.003
Total Xylenes		0.006	mg/Kg	ND	ND	ND	ND
1,3-Dichlorobenzene		0.002	mg/Kg	ND	ND	ND	ND
1,4-Dichlorobenzene		0.002	mg/Kg	ND	ND	ND	ND
1,2-Dichlorobenzene		0.002	mg/Kg	ND	ND	ND	ND
Napthalene		0.004	mg/Kg	ND	ND	ND	ND

MDL - Method Detection Limit
ND - Not Detected
C - Confirmed By Second Column Analysis
(1)-MDL X 5

ABB Environmental Services, Inc.
2590 Executive Center Circle East
Tallahassee, FL 32301
Attn : Maria Pijnenburg

RE: On-Site Analysis at the NAS Cecil Field Site
Jacksonville, Florida
PACE Project Number: 930121.600

Date Recieved:	4/21/93	4/21/93	4/21/93
Date Analyzed :	4/30/93	4/30/93	4/30/93
Time Analyzed :	11:23	12:00	13:50
Analyzed By :	RJS	RJS	RJS
Sample Number :	10 700557	10 700558	10 700559
Run Number :	ABB430B,5	ABB430B,6	ABB430B,9
Sample Name :	SD-6-3 (0-2D)	SS-6-4 (0-2)	SS-6-5 (0-2)

FIELD ANALYSIS: LOW LEVEL SOIL: 8020

Volatile Organics in Soil-Modified Method 8010

	CAS Number	MDL (mg/kg)	Units			
Methylene Chloride		0.002	mg/Kg	ND	ND	ND
Benzene		0.002	mg/Kg	ND	ND	ND
Toluene		0.002	mg/Kg	0.009	ND	ND
Chlorobenzene		0.002	mg/Kg	ND	ND	ND
Ethyl Benzene		0.002	mg/Kg	ND	ND	ND
Total Xylenes		0.006	mg/Kg	ND	ND	0.01
1,3-Dichlorobenzene		0.002	mg/Kg	ND	ND	ND
1,4-Dichlorobenzene		0.002	mg/Kg	ND	ND	ND
1,2-Dichlorobenzene		0.002	mg/Kg	ND	ND	ND
Napthalene		0.004	mg/Kg	ND	ND	ND

MDL - Method Detection Limit
ND - Not Detected
C - Confirmed By Second Column Analysis
(1)-MDL X 5

ABB Environmental Services, Inc.
2590 Executive Center Circle East
Tallahassee, FL 32301
Attn : Maria Pijnenburg

RE: On-Site Analysis at the NAS Cecil Field Site
Jacksonville, Florida
PACE Project Number: 930121.600

Date Recieved:	4/21/93	4/21/93	4/21/93	4/21/93
Date Analyzed :	4/22/93	4/22/93	4/23/93	4/23/93
Time Analyzed :	22:55	23:37	10:50	12:57
Analyzed By :	FFE	FFE	FFE	FFE
Sample Number :	10 700555	10 700556	10 700561	10 700554
Run Number :	ABB422,15	ABB422,16	ABB423,3	ABB423,6
Sample Name :	SS-6-2 (0-2)	SD-6-3 (0-2)	SS-6-6 (0-2)	SS-6-1 (0-2)

FIELD ANALYSIS: LOW LEVEL SOIL

Volatile Organics In Soil-Modified Method 8010

	CAS Number	MDL (mg/kg)	Units				
Dichlorodifluoromethane	75-71-8	0.004	mg/Kg	ND	ND	ND	ND
Chloromethane	74-87-3	0.002	mg/Kg	ND	ND	ND	ND
Vinyl Chloride	75-01-4	0.002	mg/Kg	ND	ND	ND	ND
Bromomethane	74-83-9	0.004	mg/Kg	ND	ND	ND	ND
Chloroethane	75-00-3	0.002	mg/Kg	ND	ND	ND	ND
Trichlorofluoromethane	75-69-4	0.002	mg/Kg	ND	ND	0.003(C)	0.003(C)
1,1-Dichloroethylene	75-35-4	0.002	mg/Kg	ND	ND	ND	ND
Methylene Chloride	75-09-2	0.002	mg/Kg	ND	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.002	mg/Kg	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.002	mg/Kg	ND	ND	ND	ND
Chloroform	67-66-3	0.002	mg/Kg	ND	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.002	mg/Kg	ND	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.002	mg/Kg	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.002	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.002	mg/Kg	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.002	mg/Kg	ND	ND	ND	ND
Dichlorobromomethane	75-27-4	0.002	mg/Kg	ND	ND	ND	ND
2-Chloroethylvinylether	100-75-8	0.002	mg/Kg	ND	ND	ND	ND
Cis-1,3-Dichloropropylene	10061-02-6	0.002	mg/Kg	ND	ND	ND	ND
Trans-1,3-Dichloropropylene	10061-01-5	0.002	mg/Kg	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.002	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethylene (PCE)	127-18-4	0.002	mg/Kg	ND	ND	ND	ND
Dibromochloromethane	124-48-1	0.002	mg/Kg	ND	ND	ND	ND
Chlorobenzene	108-90-7	0.002	mg/Kg	ND	ND	ND	ND
Bromoform	75-25-2	0.004	mg/Kg	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	0.004	mg/Kg	ND	ND	ND	ND
1,3-Dichlorobenzene	541-73-1	0.004	mg/Kg	ND	ND	ND	ND
1,4-Dichlorobenzene	106-46-7	0.004	mg/Kg	ND	ND	ND	ND
1,2-Dichlorobenzene	95-50-1	0.004	mg/Kg	ND	ND	ND	ND

MDL - Method Detection Limit
ND - Not Detected
C - Confirmed By Second Column Analysis
(1) MDL X 5

ABB Environmental Services, Inc.
2590 Executive Center Circle East
Tallahassee, FL 32301
Attn : Marie Pijnenburg

RE: On-Site Analysis at the NAS Cecil Field Site
Jacksonville, Florida
PACE Project Number: 930121.600

Date Recieved:	4/21/93	4/21/93	4/21/93
Date Analyzed :	4/23/93	4/23/93	4/23/93
Time Analyzed :	13:40	14:23	15:12
Analyzed By :	RFE	RFE	RFE
Sample Number :	10 700557	10 700558	10 700559
Run Number :	ABB423,7	ABB423,8	ABB423,9
Sample Name :	SD-6-3 (0-2D)	SS-6-4 (0-2)	SS-6-5 (0-2)

FIELD ANALYSIS: LOW LEVEL SOIL

Volatile Organics in Soil-Modified Method 8010

	CAS Number	MDL (mg/kg)	Units			
Dichlorodifluoromethane	75-71-8	0.004	mg/Kg	ND	ND	ND
Chloromethane	74-87-3	0.002	mg/Kg	ND	ND	ND
Vinyl Chloride	75-01-4	0.002	mg/Kg	ND	ND	ND
Bromomethane	74-83-9	0.004	mg/Kg	ND	ND	ND
Chloroethane	75-00-3	0.002	mg/Kg	ND	ND	ND
Trichloroflouromethane	75-69-4	0.002	mg/Kg	ND	0.003(C)	0.007(C)
1,1-Dichloroethylene	75-35-4	0.002	mg/Kg	ND	ND	ND
Methylene Chloride	75-09-2	0.002	mg/Kg	ND	ND	ND
Trans-1,2-Dichloroethylene	156-60-5	0.002	mg/Kg	ND	ND	ND
1,1-Dichloroethane	75-34-3	0.002	mg/Kg	ND	ND	ND
Chloroform	67-66-3	0.002	mg/Kg	ND	ND	ND
1,1,1-Trichloroethane	71-55-6	0.002	mg/Kg	ND	ND	ND
Carbon Tetrachloride	56-23-5	0.002	mg/Kg	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.002	mg/Kg	ND	ND	ND
1,1,2-Trichloroethylene (TCE)	79-01-6	0.002	mg/Kg	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.002	mg/Kg	ND	ND	ND
Dichlorobromomethane	75-27-4	0.002	mg/Kg	ND	ND	ND
2-Chloroethylvinylether	100-75-8	0.002	mg/Kg	ND	ND	ND
Cis-1,3-Dichloropropylene	10061-02-6	0.002	mg/Kg	ND	ND	ND
Trans-1,3-Dichloropropylene	10061-01-5	0.002	mg/Kg	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.002	mg/Kg	ND	ND	ND
1,1,2,2-Tetrachloroethylene (PCE)	127-18-4	0.002	mg/Kg	ND	ND	ND
Dibromochloromethane	124-48-1	0.002	mg/Kg	ND	ND	ND
Chlorobenzene	108-90-7	0.002	mg/Kg	ND	ND	ND
Bromoform	75-25-2	0.004	mg/Kg	ND	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	0.004	mg/Kg	ND	ND	ND
1,3-Dichlorobenzene	541-73-1	0.004	mg/Kg	ND	ND	ND
1,4-Dichlorobenzene	106-46-7	0.004	mg/Kg	ND	ND	ND
1,2-Dichlorobenzene	95-50-1	0.004	mg/Kg	ND	ND	ND

MDL - Method Detection Limit
ND - Not Detected
C - Confirmed By Second Column Analysis
(1)-MDL X 5

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- VOLATILES -- REPORT NO. 9613

Lab Sample Number:		C8432				C8433				C8433RE				C8435			
Site		PSC6				PSC6				PSC6				PSC6			
Locator		CF6SS1				CF6SS2				CF6SS2RE				CF6SS3			
Collect Date:		11-FEB-97				11-FEB-97				11-FEB-97				11-FEB-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW	ug/kg																
Chloromethane		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Bromomethane		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Vinyl chloride		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Chloroethane		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Methylene chloride		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Acetone		11	U	ug/kg	11	11	U	ug/kg	11	51		ug/kg	11	11	U	ug/kg	11
Carbon disulfide		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
1,1-Dichloroethene		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
1,1-Dichloroethane		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
1,2-Dichloroethene (total)		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Chloroform		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
1,2-Dichloroethane		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
2-Butanone		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
1,1,1-Trichloroethane		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Carbon tetrachloride		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Bromodichloromethane		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
1,2-Dichloropropane		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
cis-1,3-Dichloropropene		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Trichloroethene		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Dibromochloromethane		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
1,1,2-Trichloroethane		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Benzene		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
trans-1,3-Dichloropropene		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Bromoform		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
4-Methyl-2-pentanone		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
2-Hexanone		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Tetrachloroethene		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Toluene		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
1,1,2,2-Tetrachloroethane		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Chlorobenzene		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Ethylbenzene		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Styrene		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11
Xylenes (total)		11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11	11	U	ug/kg	11

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- VOLATILES -- REPORT NO. 9613

Lab Sample Number:		C8437				C8436				C8438				C8439			
Site		PSC6				PSC6				PSC6				PSC6			
Locator		CF6SS4				CF6SS5				CF6SS6				CF6SS7			
Collect Date:		11-FEB-97				11-FEB-97				11-FEB-97				11-FEB-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW	ug/kg																
Chloromethane		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Bromomethane		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Vinyl chloride		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Chloroethane		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Methylene chloride		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Acetone		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Carbon disulfide		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
1,1-Dichloroethene		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
1,1-Dichloroethane		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
1,2-Dichloroethene (total)		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Chloroform		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
1,2-Dichloroethane		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
2-Butanone		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
1,1,1-Trichloroethane		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Carbon tetrachloride		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Bromodichloromethane		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
1,2-Dichloropropane		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
cis-1,3-Dichloropropene		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Trichloroethene		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Dibromochloromethane		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
1,1,2-Trichloroethane		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Benzene		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
trans-1,3-Dichloropropene		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Bromoform		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
4-Methyl-2-pentanone		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
2-Hexanone		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Tetrachloroethene		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Toluene		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
1,1,2,2-Tetrachloroethane		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Chlorobenzene		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Ethylbenzene		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Styrene		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12
Xylenes (total)		13	U	ug/kg	13	14	U	ug/kg	14	11	U	ug/kg	11	12	U	ug/kg	12

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- VOLATILES -- REPORT NO. 9613

Lab Sample Number:		C8520				CAWX2				CAWX2RE				CAWX3			
Site		~~PSC6~~				~~PSC6~~				~~PSC6~~				~~PSC6~~			
Locator		CF6SS8				CF6SS9				CF6SS9RE				CF6SS10			
Collect Date:		12-FEB-97				24-JUL-97				24-JUL-97				24-JUL-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW	ug/kg																
Chloromethane		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Bromomethane		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Vinyl chloride		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Chloroethane		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Methylene chloride		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Acetone		13	U	ug/kg	13	14		ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Carbon disulfide		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
1,1-Dichloroethene		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
1,1-Dichloroethane		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
1,2-Dichloroethene (total)		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Chloroform		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	3	J	ug/kg	15
1,2-Dichloroethane		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
2-Butanone		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
1,1,1-Trichloroethane		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Carbon tetrachloride		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Bromodichloromethane		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
1,2-Dichloropropane		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
cis-1,3-Dichloropropene		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Trichloroethene		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Dibromochloromethane		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
1,1,2-Trichloroethane		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Benzene		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
trans-1,3-Dichloropropene		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Bromoform		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
4-Methyl-2-pentanone		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
2-Hexanone		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Tetrachloroethene		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Toluene		13	U	ug/kg	13	5	J	ug/kg	13	3	J	ug/kg	13	5	J	ug/kg	15
1,1,2,2-Tetrachloroethane		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Chlorobenzene		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Ethylbenzene		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Styrene		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15
Xylenes (total)		13	U	ug/kg	13	13	U	ug/kg	13	13	U	ug/kg	13	15	U	ug/kg	15

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- VOLATILES -- REPORT NO. 9613

Lab Sample Number:	CAWX3RE
Site	PSC6
Locator	CF6SS10RE
Collect Date:	24-JUL-97

		VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW	ug/kg				
Chloromethane		15	U	ug/kg	15
Bromomethane		15	U	ug/kg	15
Vinyl chloride		15	U	ug/kg	15
Chloroethane		15	U	ug/kg	15
Methylene chloride		15	U	ug/kg	15
Acetone		15	U	ug/kg	15
Carbon disulfide		15	U	ug/kg	15
1,1-Dichloroethene		15	U	ug/kg	15
1,1-Dichloroethane		15	U	ug/kg	15
1,2-Dichloroethene (total)		15	U	ug/kg	15
Chloroform		15	U	ug/kg	15
1,2-Dichloroethane		15	U	ug/kg	15
2-Butanone		15	U	ug/kg	15
1,1,1-Trichloroethane		15	U	ug/kg	15
Carbon tetrachloride		15	U	ug/kg	15
Bromodichloromethane		15	U	ug/kg	15
1,2-Dichloropropane		15	U	ug/kg	15
cis-1,3-Dichloropropene		15	U	ug/kg	15
Trichloroethene		15	U	ug/kg	15
Dibromochloromethane		15	U	ug/kg	15
1,1,2-Trichloroethane		15	U	ug/kg	15
Benzene		15	U	ug/kg	15
trans-1,3-Dichloropropene		15	U	ug/kg	15
Bromoform		15	U	ug/kg	15
4-Methyl-2-pentanone		15	U	ug/kg	15
2-Hexanone		15	U	ug/kg	15
Tetrachloroethene		15	U	ug/kg	15
Toluene		15	U	ug/kg	15
1,1,2,2-Tetrachloroethane		15	U	ug/kg	15
Chlorobenzene		15	U	ug/kg	15
Ethylbenzene		15	U	ug/kg	15
Styrene		15	U	ug/kg	15
Xylenes (total)		15	U	ug/kg	15

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- SEMIVOLATILES -- REPORT NO. 9614

Lab Sample Number:		C8432				C8433				C8435				C8437			
Site		PSC6				PSC6				PSC6				PSC6			
Locator		CF6SS1				CF6SS2				CF6SS3				CF6SS4			
Collect Date:		11-FEB-97				11-FEB-97				11-FEB-97				11-FEB-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW	ug/kg																
Phenol		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
bis(2-Chloroethyl) ether		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2-Chlorophenol		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
1,3-Dichlorobenzene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
1,4-Dichlorobenzene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
1,2-Dichlorobenzene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2-Methylphenol		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2,2-oxybis(1-Chloropropane)		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
4-Methylphenol		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
N-Nitroso-di-n-propylamine		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Hexachloroethane		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Nitrobenzene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Isophorone		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2-Nitrophenol		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2,4-Dimethylphenol		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
bis(2-Chloroethoxy) methane		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2,4-Dichlorophenol		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
1,2,4-Trichlorobenzene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Naphthalene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
4-Chloroaniline		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Hexachlorobutadiene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
4-Chloro-3-methylphenol		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2-Methylnaphthalene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Hexachlorocyclopentadiene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2,4,6-Trichlorophenol		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2,4,5-Trichlorophenol		900	U	ug/kg	900	890	U	ug/kg	890	880	U	ug/kg	880	1000	U	ug/kg	1000
2-Chloronaphthalene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2-Nitroaniline		900	U	ug/kg	900	890	U	ug/kg	890	880	U	ug/kg	880	1000	U	ug/kg	1000
Dimethylphthalate		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Acenaphthylene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2,6-Dinitrotoluene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
3-Nitroaniline		900	U	ug/kg	900	890	U	ug/kg	890	880	U	ug/kg	880	1000	U	ug/kg	1000
Acenaphthene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2,4-Dinitrophenol		900	U	ug/kg	900	890	U	ug/kg	890	880	U	ug/kg	880	1000	U	ug/kg	1000
4-Nitrophenol		900	U	ug/kg	900	890	U	ug/kg	890	880	U	ug/kg	880	1000	U	ug/kg	1000
Dibenzofuran		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
2,4-Dinitrotoluene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Diethylphthalate		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
4-Chlorophenyl-phenylether		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Fluorene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
4-Nitroaniline		900	U	ug/kg	900	890	U	ug/kg	890	880	U	ug/kg	880	1000	U	ug/kg	1000
4,6-Dinitro-2-methylphenol		900	U	ug/kg	900	890	U	ug/kg	890	880	U	ug/kg	880	1000	U	ug/kg	1000
N-Nitrosodiphenylamine		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
4-Bromophenyl-phenylether		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Hexachlorobenzene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Pentachlorophenol		900	U	ug/kg	900	890	U	ug/kg	890	880	U	ug/kg	880	1000	U	ug/kg	1000
Phenanthrene		370	U	ug/kg	370	370	U	ug/kg	370	170	J	ug/kg	360	430	U	ug/kg	430
Anthracene		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Carbazole		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Di-n-butylphthalate		370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- SEMIVOLATILES -- REPORT NO. 9614

Lab Sample Number:	C8432				C8433				C8435				C8437			
Site	PSC6				PSC6				PSC6				PSC6			
Locator	CF6SS1				CF6SS2				CF6SS3				CF6SS4			
Collect Date:	11-FEB-97				11-FEB-97				11-FEB-97				11-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluoranthene	370	U	ug/kg	370	370	U	ug/kg	370	290	J	ug/kg	360	91	J	ug/kg	430
Pyrene	370	U	ug/kg	370	370	U	ug/kg	370	240	J	ug/kg	360	83	J	ug/kg	430
Butylbenzylphthalate	370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
3,3-Dichlorobenzidine	370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Benzo (a) anthracene	370	U	ug/kg	370	370	U	ug/kg	370	170	J	ug/kg	360	50	J	ug/kg	430
Chrysene	370	U	ug/kg	370	370	U	ug/kg	370	200	J	ug/kg	360	62	J	ug/kg	430
bis(2-Ethylhexyl) phthalate	370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Di-n-octylphthalate	370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Benzo (b) fluoranthene	370	U	ug/kg	370	47	J	ug/kg	370	290	J	ug/kg	360	130	J	ug/kg	430
Benzo (k) fluoranthene	370	U	ug/kg	370	370	U	ug/kg	370	100	J	ug/kg	360	430	U	ug/kg	430
Benzo (a) pyrene	370	U	ug/kg	370	370	U	ug/kg	370	240	J	ug/kg	360	88	J	ug/kg	430
Indeno (1,2,3-cd) pyrene	370	U	ug/kg	370	370	U	ug/kg	370	140	J	ug/kg	360	83	J	ug/kg	430
Dibenzo (a,h) anthracene	370	U	ug/kg	370	370	U	ug/kg	370	360	U	ug/kg	360	430	U	ug/kg	430
Benzo (g,h,i) perylene	370	U	ug/kg	370	370	U	ug/kg	370	120	J	ug/kg	360	74	J	ug/kg	430

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- SEMIVOLATILES -- REPORT NO. 9614

Lab Sample Number:		C8436			C8438			C8439			C8520		
Site		PSC6			PSC6			PSC6			PSC6		
Locator		CF6SS5			CF6SS6			CF6SS7			CF6SS8		
Collect Date:		11-FEB-97			11-FEB-97			11-FEB-97			12-FEB-97		
		VALUE QUAL	UNITS	DL	VALUE QUAL	UNITS	DL	VALUE QUAL	UNITS	DL	VALUE QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW	ug/kg												
Phenol		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
bis(2-Chloroethyl) ether		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2-Chlorophenol		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
1,3-Dichlorobenzene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
1,4-Dichlorobenzene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
1,2-Dichlorobenzene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2-Methylphenol		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2,2-oxybis(1-Chloropropane)		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
4-Methylphenol		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
N-Nitroso-di-n-propylamine		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
Hexachloroethane		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
Nitrobenzene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
Isophorone		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2-Nitrophenol		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2,4-Dimethylphenol		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
bis(2-Chloroethoxy) methane		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2,4-Dichlorophenol		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
1,2,4-Trichlorobenzene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
Naphthalene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
4-Chloroaniline		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
Hexachlorobutadiene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
4-Chloro-3-methylphenol		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2-Methylnaphthalene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
Hexachlorocyclopentadiene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2,4,6-Trichlorophenol		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2,4,5-Trichlorophenol		2800 U	ug/kg	2800	880 U	ug/kg	880	990 U	ug/kg	990	1000 U	ug/kg	1000
2-Chloronaphthalene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2-Nitroaniline		2800 U	ug/kg	2800	880 U	ug/kg	880	990 U	ug/kg	990	1000 U	ug/kg	1000
Dimethylphthalate		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
Acenaphthylene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2,6-Dinitrotoluene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
3-Nitroaniline		2800 U	ug/kg	2800	880 U	ug/kg	880	990 U	ug/kg	990	1000 U	ug/kg	1000
Acenaphthene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2,4-Dinitrophenol		2800 U	ug/kg	2800	880 U	ug/kg	880	990 U	ug/kg	990	1000 U	ug/kg	1000
4-Nitrophenol		2800 U	ug/kg	2800	880 U	ug/kg	880	990 U	ug/kg	990	1000 U	ug/kg	1000
Dibenzofuran		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
2,4-Dinitrotoluene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
Diethylphthalate		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
4-Chlorophenyl-phenylether		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430
Fluorene		1200 U	ug/kg	1200	360 U	ug/kg	360	410 U	ug/kg	410	430 U	ug/kg	430

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- SEMIVOLATILES -- REPORT NO. 9614

Lab Sample Number:	C8436				C8438				C8439				C8520			
Site	PSC6				PSC6				PSC6				PSC6			
Locator	CF6SS5				CF6SS6				CF6SS7				CF6SS8			
Collect Date:	11-FEB-97				11-FEB-97				11-FEB-97				12-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
4-Nitroaniline	2800	U	ug/kg	2800	880	U	ug/kg	880	990	U	ug/kg	990	1000	U	ug/kg	1000
4,6-Dinitro-2-methylphenol	2800	U	ug/kg	2800	880	U	ug/kg	880	990	U	ug/kg	990	1000	U	ug/kg	1000
N-Nitrosodiphenylamine	1200	U	ug/kg	1200	360	U	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
4-Bromophenyl-phenylether	1200	U	ug/kg	1200	360	U	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Hexachlorobenzene	1200	U	ug/kg	1200	360	U	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Pentachlorophenol	2800	U	ug/kg	2800	880	U	ug/kg	880	990	U	ug/kg	990	1000	U	ug/kg	1000
Phenanthrene	310	J	ug/kg	1200	360	U	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Anthracene	1200	U	ug/kg	1200	360	U	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Carbazole	1200	U	ug/kg	1200	360	U	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Di-n-butylphthalate	1200	U	ug/kg	1200	360	U	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Fluoranthene	4900		ug/kg	1200	60	J	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Pyrene	3800		ug/kg	1200	65	J	ug/kg	360	48	J	ug/kg	410	430	U	ug/kg	430
Butylbenzylphthalate	1200	U	ug/kg	1200	360	U	ug/kg	360	140	J	ug/kg	410	430	U	ug/kg	430
3,3-Dichlorobenzidine	1200	U	ug/kg	1200	360	U	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Benzo (a) anthracene	650	J	ug/kg	1200	58	J	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Chrysene	1300		ug/kg	1200	73	J	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
bis(2-Ethylhexyl) phthalate	1200	U	ug/kg	1200	360	U	ug/kg	360	410		ug/kg	410	430	U	ug/kg	430
Di-n-octylphthalate	1200	U	ug/kg	1200	360	U	ug/kg	360	510		ug/kg	410	430	U	ug/kg	430
Benzo (b) fluoranthene	920	J	ug/kg	1200	180	J	ug/kg	360	42	J	ug/kg	410	430	U	ug/kg	430
Benzo (k) fluoranthene	360	J	ug/kg	1200	57	J	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Benzo (a) pyrene	400	J	ug/kg	1200	120	J	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Indeno (1,2,3-cd) pyrene	190	J	ug/kg	1200	79	J	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Dibenzo (a,h) anthracene	1200	U	ug/kg	1200	360	U	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430
Benzo (g,h,i) perylene	170	J	ug/kg	1200	76	J	ug/kg	360	410	U	ug/kg	410	430	U	ug/kg	430

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- SEMIVOLATILES -- REPORT NO. 9614

Lab Sample Number:		CAWX2				CAWX3			
Site		PSC6				PSC6			
Locator		CF6SS9				CF6SS10			
Collect Date:		24-JUL-97				24-JUL-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW	ug/kg								
Phenol		440	U	ug/kg	440	480	U	ug/kg	480
bis(2-Chloroethyl) ether		440	U	ug/kg	440	480	U	ug/kg	480
2-Chlorophenol		440	U	ug/kg	440	480	U	ug/kg	480
1,3-Dichlorobenzene		440	U	ug/kg	440	480	U	ug/kg	480
1,4-Dichlorobenzene		440	U	ug/kg	440	480	U	ug/kg	480
1,2-Dichlorobenzene		440	U	ug/kg	440	480	U	ug/kg	480
2-Methylphenol		440	U	ug/kg	440	480	U	ug/kg	480
2,2-oxybis(1-Chloropropane)		440	U	ug/kg	440	480	U	ug/kg	480
4-Methylphenol		440	U	ug/kg	440	480	U	ug/kg	480
N-Nitroso-di-n-propylamine		440	U	ug/kg	440	480	U	ug/kg	480
Hexachloroethane		440	U	ug/kg	440	480	U	ug/kg	480
Nitrobenzene		440	U	ug/kg	440	480	U	ug/kg	480
Isophorone		440	U	ug/kg	440	480	U	ug/kg	480
2-Nitrophenol		440	U	ug/kg	440	480	U	ug/kg	480
2,4-Dimethylphenol		440	U	ug/kg	440	480	U	ug/kg	480
bis(2-Chloroethoxy) methane		440	U	ug/kg	440	480	U	ug/kg	480
2,4-Dichlorophenol		440	U	ug/kg	440	480	U	ug/kg	480
1,2,4-Trichlorobenzene		440	U	ug/kg	440	480	U	ug/kg	480
Naphthalene		440	U	ug/kg	440	480	U	ug/kg	480
4-Chloroaniline		440	U	ug/kg	440	480	U	ug/kg	480
Hexachlorobutadiene		440	U	ug/kg	440	480	U	ug/kg	480
4-Chloro-3-methylphenol		440	U	ug/kg	440	480	U	ug/kg	480
2-Methylnaphthalene		440	U	ug/kg	440	480	U	ug/kg	480
Hexachlorocyclopentadiene		440	U	ug/kg	440	480	U	ug/kg	480
2,4,6-Trichlorophenol		440	U	ug/kg	440	480	U	ug/kg	480
2,4,5-Trichlorophenol		1100	U	ug/kg	1100	1200	U	ug/kg	1200
2-Chloronaphthalene		440	U	ug/kg	440	480	U	ug/kg	480
2-Nitroaniline		1100	U	ug/kg	1100	1200	U	ug/kg	1200
Dimethylphthalate		440	U	ug/kg	440	480	U	ug/kg	480
Acenaphthylene		440	U	ug/kg	440	480	U	ug/kg	480
2,6-Dinitrotoluene		440	U	ug/kg	440	480	U	ug/kg	480
3-Nitroaniline		1100	U	ug/kg	1100	1200	U	ug/kg	1200
Acenaphthene		440	U	ug/kg	440	480	U	ug/kg	480
2,4-Dinitrophenol		1100	U	ug/kg	1100	1200	U	ug/kg	1200
4-Nitrophenol		1100	U	ug/kg	1100	1200	U	ug/kg	1200
Dibenzofuran		440	U	ug/kg	440	480	U	ug/kg	480
2,4-Dinitrotoluene		440	U	ug/kg	440	480	U	ug/kg	480
Diethylphthalate		440	U	ug/kg	440	480	U	ug/kg	480
4-Chlorophenyl-phenylether		440	U	ug/kg	440	480	U	ug/kg	480
Fluorene		440	U	ug/kg	440	480	U	ug/kg	480

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- SEMIVOLATILES -- REPORT NO. 9614

Lab Sample Number:	CAWX2				CAWX3			
Site	PSC6				PSC6			
Locator	CF6SS9				CF6SS10			
Collect Date:	24-JUL-97				24-JUL-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
4-Nitroaniline	1100	U	ug/kg	1100	1200	U	ug/kg	1200
4,6-Dinitro-2-methylphenol	1100	U	ug/kg	1100	1200	U	ug/kg	1200
N-Nitrosodiphenylamine	440	U	ug/kg	440	480	U	ug/kg	480
4-Bromophenyl-phenylether	440	U	ug/kg	440	480	U	ug/kg	480
Hexachlorobenzene	440	U	ug/kg	440	480	U	ug/kg	480
Pentachlorophenol	1100	U	ug/kg	1100	1200	U	ug/kg	1200
Phenanthrene	440	U	ug/kg	440	480	U	ug/kg	480
Anthracene	440	U	ug/kg	440	480	U	ug/kg	480
Carbazole	440	U	ug/kg	440	480	U	ug/kg	480
Di-n-butylphthalate	440	U	ug/kg	440	480	U	ug/kg	480
Fluoranthene	440	U	ug/kg	440	480	U	ug/kg	480
Pyrene	440	U	ug/kg	440	480	U	ug/kg	480
Butylbenzylphthalate	440	U	ug/kg	440	480	U	ug/kg	480
3,3-Dichlorobenzidine	440	U	ug/kg	440	480	U	ug/kg	480
Benzo (a) anthracene	440	U	ug/kg	440	480	U	ug/kg	480
Chrysene	440	U	ug/kg	440	480	U	ug/kg	480
bis(2-Ethylhexyl) phthalate	440	U	ug/kg	440	82	J	ug/kg	480
Di-n-octylphthalate	440	U	ug/kg	440	480	U	ug/kg	480
Benzo (b) fluoranthene	440	U	ug/kg	440	480	U	ug/kg	480
Benzo (k) fluoranthene	440	U	ug/kg	440	480	U	ug/kg	480
Benzo (a) pyrene	440	U	ug/kg	440	480	U	ug/kg	480
Indeno (1,2,3-cd) pyrene	440	U	ug/kg	440	480	U	ug/kg	480
Dibenzo (a,h) anthracene	440	U	ug/kg	440	480	U	ug/kg	480
Benzo (g,h,i) perylene	440	U	ug/kg	440	480	U	ug/kg	480

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- PAHs -- REPORT NO. 9621

Lab Sample Number:		CEK3X				CEK42				CEK43				CEK44			
Site		PSC6				PSC6				PSC6				PSC6			
Locator		CF6SS3A				CF6SS3B				CF6SS3C				CF6SS5A			
Collect Date:		11-DEC-97				11-DEC-97				11-DEC-97				11-DEC-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
PAHs	ug/kg																
Acenaphthene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	380	U	ug/kg	380
Acenaphthylene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	380	U	ug/kg	380
Anthracene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	380	U	ug/kg	380
Benzo (a) anthracene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	83	J	ug/kg	380
Benzo (b) fluoranthene		370	U	ug/kg	370	370	U	ug/kg	370	59	J	ug/kg	370	180	J	ug/kg	380
Benzo (k) fluoranthene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	60	J	ug/kg	380
Benzo (a) pyrene		370	U	ug/kg	370	370	U	ug/kg	370	41	J	ug/kg	370	140	J	ug/kg	380
Chrysene		370	U	ug/kg	370	370	U	ug/kg	370	49	J	ug/kg	370	120	J	ug/kg	380
Dibenzo (a,h) anthracene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	380	U	ug/kg	380
Fluoranthene		370	U	ug/kg	370	370	U	ug/kg	370	65	J	ug/kg	370	150	J	ug/kg	380
Fluorene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	380	U	ug/kg	380
Indeno (1,2,3-cd) pyrene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	87	J	ug/kg	380
Benzo (g,h,i) perylene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	77	J	ug/kg	380
1-Methylnaphthalene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	380	U	ug/kg	380
2-Methylnaphthalene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	380	U	ug/kg	380
Naphthalene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	380	U	ug/kg	380
Phenanthrene		370	U	ug/kg	370	370	U	ug/kg	370	370	U	ug/kg	370	44	J	ug/kg	380
Pyrene		370	U	ug/kg	370	370	U	ug/kg	370	73	J	ug/kg	370	150	J	ug/kg	380

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- PAHs -- REPORT NO. 9621

Lab Sample Number:		CEK45				CEK46			
Site		PSC6				PSC6			
Locator		CF6SS5B				CF6SS5C			
Collect Date:		11-DEC-97				11-DEC-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
PAHs	ug/kg								
Acenaphthene		390	U	ug/kg	390	440	U	ug/kg	440
Acenaphthylene		390	U	ug/kg	390	440	U	ug/kg	440
Anthracene		390	U	ug/kg	390	440	U	ug/kg	440
Benzo (a) anthracene		390	U	ug/kg	390	440	U	ug/kg	440
Benzo (b) fluoranthene		390	U	ug/kg	390	64	J	ug/kg	440
Benzo (k) fluoranthene		390	U	ug/kg	390	440	U	ug/kg	440
Benzo (a) pyrene		390	U	ug/kg	390	50	J	ug/kg	440
Chrysene		390	U	ug/kg	390	440	U	ug/kg	440
Dibenzo (a,h) anthracene		390	U	ug/kg	390	440	U	ug/kg	440
Fluoranthene		390	U	ug/kg	390	440	U	ug/kg	440
Fluorene		390	U	ug/kg	390	440	U	ug/kg	440
Indeno (1,2,3-cd) pyrene		390	U	ug/kg	390	440	U	ug/kg	440
Benzo (g,h,i) perylene		390	U	ug/kg	390	440	U	ug/kg	440
1-Methylnaphthalene		390	U	ug/kg	390	440	U	ug/kg	440
2-Methylnaphthalene		390	U	ug/kg	390	440	U	ug/kg	440
Naphthalene		390	U	ug/kg	390	440	U	ug/kg	440
Phenanthrene		390	U	ug/kg	390	440	U	ug/kg	440
Pyrene		390	U	ug/kg	390	55	J	ug/kg	440

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- PESTICIDES AND PCBs -- REPORT NO. 9615

Lab Sample Number:	C8432				C8433				C8435				C8437			
Site	PSC6				~~PSC6~~				PSC6				~~P306~~			
Locator	CF6SS1				CF6SS2				CF6SS3				CF6SS4			
Collect Date:	11-FEB-97				11-FEB-97				11-FEB-97				11-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW ug/kg																
alpha-BHC	1.9	U	ug/kg	1.9	1.9	U	ug/kg	1.9	3.7	U	ug/kg	3.7	2.2	U	ug/kg	2.2
beta-BHC	1.9	U	ug/kg	1.9	1.9	U	ug/kg	1.9	3.7	U	ug/kg	3.7	2.2	U	ug/kg	2.2
delta-BHC	1.9	U	ug/kg	1.9	1.9	U	ug/kg	1.9	3.7	U	ug/kg	3.7	2.2	U	ug/kg	2.2
gamma-BHC (Lindane)	1.9	U	ug/kg	1.9	1.9	U	ug/kg	1.9	3.7	U	ug/kg	3.7	2.2	U	ug/kg	2.2
Heptachlor	1.9	U	ug/kg	1.9	.16	J	ug/kg	2	1	J	ug/kg	4	2.2	U	ug/kg	2.2
Aldrin	1.9	U	ug/kg	1.9	1.9	U	ug/kg	1.9	3.7	U	ug/kg	3.7	2.2	U	ug/kg	2.2
Heptachlor epoxide	1.9	U	ug/kg	1.9	1.9	U	ug/kg	1.9	4.8	J	ug/kg	4	2.2	U	ug/kg	2.2
Endosulfan I	1.9	U	ug/kg	1.9	1.9	U	ug/kg	1.9	3.7	U	ug/kg	3.7	2.2	U	ug/kg	2.2
Dieldrin	3.7	U	ug/kg	3.7	3.8	U	ug/kg	3.8	7.3	U	ug/kg	7.3	4.4	U	ug/kg	4.4
4,4-DDE	3.7	U	ug/kg	3.7	2.7	J	ug/kg	4	34		ug/kg	7	.62	J	ug/kg	4
Endrin	3.7	U	ug/kg	3.7	3.8	U	ug/kg	3.8	7.3	U	ug/kg	7.3	4.4	U	ug/kg	4.4
Endosulfan II	3.7	U	ug/kg	3.7	3.8	U	ug/kg	3.8	7.3	U	ug/kg	7.3	4.4	U	ug/kg	4.4
4,4-DDD	3.7	U	ug/kg	3.7	3.8	U	ug/kg	3.8	3.4	J	ug/kg	7	.56	J	ug/kg	4
Endosulfan sulfate	3.7	U	ug/kg	3.7	3.8	U	ug/kg	3.8	7.3	U	ug/kg	7.3	4.4	U	ug/kg	4.4
4,4-DDT	.25	J	ug/kg	4	8.4	J	ug/kg	4	17	J	ug/kg	7	.45	J	ug/kg	4
Methoxychlor	19	U	ug/kg	19	19	U	ug/kg	19	37	U	ug/kg	37	22	U	ug/kg	22
Endrin ketone	3.7	U	ug/kg	3.7	3.8	U	ug/kg	3.8	7.3	U	ug/kg	7.3	4.4	U	ug/kg	4.4
Endrin aldehyde	3.7	U	ug/kg	3.7	3.8	U	ug/kg	3.8	7.3	U	ug/kg	7.3	4.4	U	ug/kg	4.4
alpha-Chlordane	1.9	U	ug/kg	1.9	1.9	U	ug/kg	1.9	22		ug/kg	4	2.2	U	ug/kg	2.2
gamma-Chlordane	1.9	U	ug/kg	1.9	1.9	U	ug/kg	1.9	22		ug/kg	4	2.2	U	ug/kg	2.2
Toxaphene	190	U	ug/kg	190	190	U	ug/kg	190	370	U	ug/kg	370	220	U	ug/kg	220
Aroclor-1016	37	U	ug/kg	37	38	U	ug/kg	38	73	U	ug/kg	73	44	U	ug/kg	44
Aroclor-1221	75	U	ug/kg	75	75	U	ug/kg	75	150	U	ug/kg	150	87	U	ug/kg	87
Aroclor-1232	37	U	ug/kg	37	38	U	ug/kg	38	73	U	ug/kg	73	44	U	ug/kg	44
Aroclor-1242	37	U	ug/kg	37	38	U	ug/kg	38	73	U	ug/kg	73	44	U	ug/kg	44
Aroclor-1248	37	U	ug/kg	37	38	U	ug/kg	38	73	U	ug/kg	73	44	U	ug/kg	44
Aroclor-1254	37	U	ug/kg	37	38	U	ug/kg	38	73	U	ug/kg	73	44	U	ug/kg	44
Aroclor-1260	37	U	ug/kg	37	38	U	ug/kg	38	73	U	ug/kg	73	44	U	ug/kg	44

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- PESTICIDES AND PCBs -- REPORT NO. 9615

Lab Sample Number:		C8436				C8438				C8439				C8520		
Site		PSC6				PSC6				PSC6				PSC6		
Locator		CF6SS5				CF6SS6				CF6SS7				CF6SS8		
Collect Date:		11-FEB-97				11-FEB-97				11-FEB-97				12-FEB-97		
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW	ug/kg																
alpha-BHC		2.3	U	ug/kg	2.3	1.8	U	ug/kg	1.8	2.1	U	ug/kg	2.1	2.2	U	ug/kg	2.2
beta-BHC		2.3	U	ug/kg	2.3	1.8	U	ug/kg	1.8	2.1	U	ug/kg	2.1	2.2	U	ug/kg	2.2
delta-BHC		2.3	U	ug/kg	2.3	1.8	U	ug/kg	1.8	2.1	U	ug/kg	2.1	2.2	U	ug/kg	2.2
gamma-BHC (Lindane)		2.3	U	ug/kg	2.3	1.8	U	ug/kg	1.8	2.1	U	ug/kg	2.1	2.2	U	ug/kg	2.2
Heptachlor		2.3	U	ug/kg	2.3	1.8	U	ug/kg	1.8	2.1	U	ug/kg	2.1	2.2	U	ug/kg	2.2
Aldrin		.66	J	ug/kg	2	.13	J	ug/kg	2	.21	J	ug/kg	2	2.2	U	ug/kg	2.2
Heptachlor epoxide		2.3	U	ug/kg	2.3	1.8	U	ug/kg	1.8	2.1	U	ug/kg	2.1	.22	J	ug/kg	2
Endosulfan I		2.3	U	ug/kg	2.3	1.8	U	ug/kg	1.8	2.1	U	ug/kg	2.1	2.2	U	ug/kg	2.2
Dieldrin		4.7	U	ug/kg	4.7	3.7	U	ug/kg	3.7	4.1	U	ug/kg	4.1	4.4	U	ug/kg	4.4
4,4-DDE		14		ug/kg	5	.65	J	ug/kg	4	2.6	J	ug/kg	4	.87	J	ug/kg	4
Endrin		4.7	U	ug/kg	4.7	3.7	U	ug/kg	3.7	4.1	U	ug/kg	4.1	4.4	U	ug/kg	4.4
Endosulfan II		4.7	U	ug/kg	4.7	3.7	U	ug/kg	3.7	4.1	U	ug/kg	4.1	4.4	U	ug/kg	4.4
4,4-DDD		5.1	J	ug/kg	5	3.7	U	ug/kg	3.7	4.1	U	ug/kg	4.1	4.4	U	ug/kg	4.4
Endosulfan sulfate		4.7	U	ug/kg	4.7	3.7	U	ug/kg	3.7	4.1	U	ug/kg	4.1	.64	J	ug/kg	4
4,4-DDT		2.6	J	ug/kg	5	4.9		ug/kg	4	4.1	U	ug/kg	4.1	4.4	U	ug/kg	4.4
Methoxychlor		23	U	ug/kg	23	18	U	ug/kg	18	21	U	ug/kg	21	9.6	J	ug/kg	22
Endrin ketone		.22	J	ug/kg	5	.08	J	ug/kg	4	4.1	U	ug/kg	4.1	4.4	U	ug/kg	4.4
Endrin aldehyde		4.7	U	ug/kg	4.7	3.7	U	ug/kg	3.7	4.1	U	ug/kg	4.1	4.4	U	ug/kg	4.4
alpha-Chlordane		4.6	J	ug/kg	2	.13	J	ug/kg	2	.62	J	ug/kg	2	2.2	U	ug/kg	2.2
gamma-Chlordane		5	J	ug/kg	2	1.8	U	ug/kg	1.8	.74	J	ug/kg	2	2.2	U	ug/kg	2.2
Toxaphene		230	U	ug/kg	230	180	U	ug/kg	180	210	U	ug/kg	210	220	U	ug/kg	220
Aroclor-1016		47	U	ug/kg	47	37	U	ug/kg	37	41	U	ug/kg	41	44	U	ug/kg	44
Aroclor-1221		94	U	ug/kg	94	74	U	ug/kg	74	82	U	ug/kg	82	88	U	ug/kg	88
Aroclor-1232		47	U	ug/kg	47	37	U	ug/kg	37	41	U	ug/kg	41	44	U	ug/kg	44
Aroclor-1242		47	U	ug/kg	47	37	U	ug/kg	37	41	U	ug/kg	41	44	U	ug/kg	44
Aroclor-1248		47	U	ug/kg	47	37	U	ug/kg	37	41	U	ug/kg	41	44	U	ug/kg	44
Aroclor-1254		47	U	ug/kg	47	37	U	ug/kg	37	41	U	ug/kg	41	44	U	ug/kg	44
Aroclor-1260		47	U	ug/kg	47	37	U	ug/kg	37	41	U	ug/kg	41	44	U	ug/kg	44

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- PESTICIDES AND PCBs -- REPORT NO. 9615

Lab Sample Number:		CAWX2				CAWX3			
Site		~~PSC6~~				~~PSC6~~			
Locator		CF6SS9				CF6SS10			
Collect Date:		24-JUL-97				24-JUL-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 9D-SOW	ug/kg								
alpha-BHC		11	U	ug/kg	11	12	U	ug/kg	12
beta-BHC		11	U	ug/kg	11	12	U	ug/kg	12
delta-BHC		11	U	ug/kg	11	12	U	ug/kg	12
gamma-BHC (Lindane)		11	U	ug/kg	11	12	U	ug/kg	12
Heptachlor		11	U	ug/kg	11	12	U	ug/kg	12
Aldrin		11	U	ug/kg	11	12	U	ug/kg	12
Heptachlor epoxide		11	U	ug/kg	11	12	U	ug/kg	12
Endosulfan I		11	U	ug/kg	11	12	U	ug/kg	12
Dieldrin		1.4	J	ug/kg	22	24	U	ug/kg	24
4,4-DDE		22	U	ug/kg	22	24	U	ug/kg	24
Endrin		22	U	ug/kg	22	24	U	ug/kg	24
Endosulfan II		22	U	ug/kg	22	24	U	ug/kg	24
4,4-DDD		22	U	ug/kg	22	24	U	ug/kg	24
Endosulfan sulfate		22	U	ug/kg	22	24	U	ug/kg	24
4,4-DDT		22	U	ug/kg	22	24	U	ug/kg	24
Methoxychlor		3.6	J	ug/kg	22	6.4	J	ug/kg	24
Endrin ketone		22	U	ug/kg	22	24	U	ug/kg	24
Endrin aldehyde		22	U	ug/kg	22	24	U	ug/kg	24
alpha-Chlordane		11	U	ug/kg	11	12	U	ug/kg	12
gamma-Chlordane		11	U	ug/kg	11	12	U	ug/kg	12
Toxaphene		1100	U	ug/kg	1100	1200	U	ug/kg	1200
Aroclor-1016		220	U	ug/kg	220	240	U	ug/kg	240
Aroclor-1221		440	U	ug/kg	440	490	U	ug/kg	490
Aroclor-1232		220	U	ug/kg	220	240	U	ug/kg	240
Aroclor-1242		220	U	ug/kg	220	240	U	ug/kg	240
Aroclor-1248		220	U	ug/kg	220	240	U	ug/kg	240
Aroclor-1254		220	U	ug/kg	220	240	U	ug/kg	240
Aroclor-1260		220	U	ug/kg	220	240	U	ug/kg	240

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- INORGANICS -- REPORT NO. 9616

Lab Sample Number:	C8432				C8433				C8435				C8437			
Site	PSC6				PSC6				PSC6				PSC6			
Locator	CF6SS1				CF6SS2				CF6SS3				CF6SS4			
Collect Date:	11-FEB-97				11-FEB-97				11-FEB-97				11-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE mg/kg																
Aluminum	895		mg/kg	40	1290		mg/kg	40	2420		mg/kg	40	689		mg/kg	40
Antimony	.67	U	mg/kg	12	.67	U	mg/kg	12	.66	U	mg/kg	12	.79	U	mg/kg	12
Arsenic	.45	U	mg/kg	2	.45	U	mg/kg	2	2.4		mg/kg	2	.52	U	mg/kg	2
Barium	6.2	J	mg/kg	40	6.4	J	mg/kg	40	7.4	J	mg/kg	40	2.4	J	mg/kg	40
Beryllium	.22	U	mg/kg	1	.22	U	mg/kg	1	.22	U	mg/kg	1	.26	U	mg/kg	1
Cadmium	.22	U	mg/kg	1	.22	U	mg/kg	1	.22	U	mg/kg	1	.26	U	mg/kg	1
Calcium	611	J	mg/kg	1000	502	J	mg/kg	1000	979	J	mg/kg	1000	247	J	mg/kg	1000
Chromium	1.1	J	mg/kg	2	1.7	J	mg/kg	2	8.4		mg/kg	2	1.2	J	mg/kg	2
Cobalt	.22	U	mg/kg	10	.22	U	mg/kg	10	.26	J	mg/kg	10	.3	J	mg/kg	10
Copper	.22	U	mg/kg	5	.48	J	mg/kg	5	3.9	J	mg/kg	5	.33	J	mg/kg	5
Iron	512		mg/kg	20	510		mg/kg	20	551		mg/kg	20	315		mg/kg	20
Lead	8.5		mg/kg	.6	10.7		mg/kg	.6	32.6		mg/kg	.6	3.7		mg/kg	.6
Magnesium	57.5	J	mg/kg	1000	67.4	J	mg/kg	1000	112	J	mg/kg	1000	75.1	J	mg/kg	1000
Manganese	9.1		mg/kg	3	4.7		mg/kg	3	9.2		mg/kg	3	2.6	J	mg/kg	3
Mercury	.06	U	mg/kg	.1	.06	U	mg/kg	.1	.05	U	mg/kg	.1	.07	U	mg/kg	.1
Nickel	.69	J	mg/kg	8	.64	J	mg/kg	8	1.5	J	mg/kg	8	.52	U	mg/kg	8
Potassium	28.6	J	mg/kg	1000	30.1	J	mg/kg	1000	36.5	J	mg/kg	1000	12.3	U	mg/kg	1000
Selenium	.9	U	mg/kg	1	.89	U	mg/kg	1	.88	U	mg/kg	1	1	U	mg/kg	1
Silver	.22	U	mg/kg	2	.22	U	mg/kg	2	.22	U	mg/kg	2	.26	U	mg/kg	2
Sodium	24.9	U	mg/kg	1000	24.8	U	mg/kg	1000	24.4	U	mg/kg	1000	29.1	U	mg/kg	1000
Thallium	.67	U	mg/kg	2	.67	U	mg/kg	2	.66	U	mg/kg	2	.94	J	mg/kg	2
Vanadium	1.9	J	mg/kg	10	2.4	J	mg/kg	10	3.6	J	mg/kg	10	.85	J	mg/kg	10
Zinc	9.7		mg/kg	4	8.8		mg/kg	4	28.9		mg/kg	4	4.2	J	mg/kg	4
Cyanide	.06	U	mg/kg	.5	.06	U	mg/kg	.5	.13	J	mg/kg	.5	.08	U	mg/kg	.5

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- INORGANICS -- REPORT NO. 9616

Lab Sample Number:	C8436				C8438				C8439				C8520			
Site	PSC6				PSC6				PSC6				PSC6			
Locator	CF6SS5				CF6SS6				CF6SS7				CF6SS8			
Collect Date:	11-FEB-97				11-FEB-97				11-FEB-97				12-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE mg/kg																
Aluminum	2380		mg/kg	40	2460		mg/kg	40	2650		mg/kg	40	1140		mg/kg	40
Antimony	.85	U	mg/kg	12	.66	U	mg/kg	12	.74	U	mg/kg	12	.79	U	mg/kg	12
Arsenic	.56	U	mg/kg	2	.44	U	mg/kg	2	.5	U	mg/kg	2	.87	J	mg/kg	2
Barium	8.9	J	mg/kg	40	6.4	J	mg/kg	40	7.2	J	mg/kg	40	8.3	J	mg/kg	40
Beryllium	.28	U	mg/kg	1	.22	U	mg/kg	1	.25	U	mg/kg	1	.26	U	mg/kg	1
Cadmium	.28	U	mg/kg	1	.22	U	mg/kg	1	.5	J	mg/kg	1	.26	U	mg/kg	1
Calcium	7480		mg/kg	1000	1620		mg/kg	1000	9640		mg/kg	1000	2930		mg/kg	1000
Chromium	3.6		mg/kg	2	3.5		mg/kg	2	4.4		mg/kg	2	1.8	J	mg/kg	2
Cobalt	.4	J	mg/kg	10	.22	U	mg/kg	10	.25	U	mg/kg	10	.26	U	mg/kg	10
Copper	3.1	J	mg/kg	5	1.9	J	mg/kg	5	8.5		mg/kg	5	2.9	J	mg/kg	5
Iron	1060		mg/kg	20	526		mg/kg	20	507		mg/kg	20	703		mg/kg	20
Lead	33.3		mg/kg	.6	11.6		mg/kg	.6	11.9		mg/kg	.6	4.7		mg/kg	.6
Magnesium	274	J	mg/kg	1000	148	J	mg/kg	1000	163	J	mg/kg	1000	94.4	J	mg/kg	1000
Manganese	20.9		mg/kg	3	11.3		mg/kg	3	9.7		mg/kg	3	6.8		mg/kg	3
Mercury	.07	U	mg/kg	.1	.12		mg/kg	.1	.06	U	mg/kg	.1	.07	U	mg/kg	.1
Nickel	2.1	J	mg/kg	8	2	J	mg/kg	8	1.1	J	mg/kg	8	.52	U	mg/kg	8
Potassium	51.3	J	mg/kg	1000	83.9	J	mg/kg	1000	39.7	J	mg/kg	1000	37.7	J	mg/kg	1000
Selenium	1.1	U	mg/kg	1	.88	U	mg/kg	1	.99	U	mg/kg	1	1	U	mg/kg	1
Silver	.28	U	mg/kg	2	.67	J	mg/kg	2	1.3	J	mg/kg	2	.26	U	mg/kg	2
Sodium	31.3	U	mg/kg	1000	24.5	U	mg/kg	1000	27.5	U	mg/kg	1000	29.1	U	mg/kg	1000
Thallium	.85	U	mg/kg	2	.66	U	mg/kg	2	.74	U	mg/kg	2	.79	U	mg/kg	2
Vanadium	5.7	J	mg/kg	10	5.3	J	mg/kg	10	2.9	J	mg/kg	10	1.9	J	mg/kg	10
Zinc	20.2		mg/kg	4	8.7		mg/kg	4	20.5		mg/kg	4	7.1		mg/kg	4
Cyanide	.1	J	mg/kg	.5	.06	U	mg/kg	.5	.07	U	mg/kg	.5	.07	U	mg/kg	.5

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE SOIL -- INORGANICS -- REPORT NO. 9616

Lab Sample Number:	CAWX2				CAWX3			
Site	PSC6				PSC6			
Locator	CF6SS9				CF6SS10			
Collect Date:	24-JUL-97				24-JUL-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE mg/kg								
Aluminum	2960		mg/kg	40	2390		mg/kg	40
Antimony	1.1	J	mg/kg	12	1.1	U	mg/kg	12
Arsenic	1.2	U	mg/kg	2	1.3	U	mg/kg	2
Barium	13.7	J	mg/kg	40	15.8	J	mg/kg	40
Beryllium	.11	U	mg/kg	1	.12	U	mg/kg	1
Cadmium	.56	J	mg/kg	1	1	J	mg/kg	1
Calcium	2990		mg/kg	1000	5560		mg/kg	1000
Chromium	5.3		mg/kg	2	4.6		mg/kg	2
Cobalt	.47	J	mg/kg	10	.53	J	mg/kg	10
Copper	4.9	J	mg/kg	5	7.7		mg/kg	5
Iron	2140		mg/kg	20	8000		mg/kg	20
Lead	35.2		mg/kg	.6	29.2		mg/kg	.6
Magnesium	250	J	mg/kg	1000	429	J	mg/kg	1000
Manganese	33.8		mg/kg	3	131		mg/kg	3
Mercury	.09	J	mg/kg	.1	.14	J	mg/kg	.1
Nickel	1.9	J	mg/kg	8	2.4	J	mg/kg	8
Potassium	62	J	mg/kg	1000	146	J	mg/kg	1000
Selenium	1.1	U	mg/kg	1	1.2	U	mg/kg	1
Silver	.27	U	mg/kg	2	.29	U	mg/kg	2
Sodium	69.1	U	mg/kg	1000	75.9	U	mg/kg	1000
Thallium	1.6	U	mg/kg	2	1.7	U	mg/kg	2
Vanadium	5	J	mg/kg	10	6.5	J	mg/kg	10
Zinc	51	J	mg/kg	4	69.4	J	mg/kg	4
Cyanide	.15	J	mg/kg	.5	.22	J	mg/kg	.5

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SUBSURFACE SOIL -- VOLATILES -- REPORT NO. 9617

Lab Sample Number:		C86NP				C86P4				C86P4RE				C86P5		
Site		~~PSC6~~				~~PSC6~~				~~PSC6~~				~~PSC6~~		
Locator		CF6SB1				CF6SB2				CF6SB2RE				CF6SB3		
Collect Date:		15-FEB-97				15-FEB-97				15-FEB-97				15-FEB-97		
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW	ug/kg																
Chloromethane		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Bromomethane		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Vinyl chloride		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Chloroethane		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Methylene chloride		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Acetone		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Carbon disulfide		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
1,1-Dichloroethene		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
1,1-Dichloroethane		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
1,2-Dichloroethene (total)		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Chloroform		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
1,2-Dichloroethane		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
2-Butanone		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
1,1,1-Trichloroethane		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Carbon tetrachloride		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Bromodichloromethane		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
1,2-Dichloropropane		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
cis-1,3-Dichloropropene		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Trichloroethene		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Dibromochloromethane		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
1,1,2-Trichloroethane		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Benzene		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
trans-1,3-Dichloropropene		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Bromoform		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
4-Methyl-2-pentanone		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
2-Hexanone		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Tetrachloroethene		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Toluene		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
1,1,2,2-Tetrachloroethane		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Chlorobenzene		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Ethylbenzene		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Styrene		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12
Xylenes (total)		12	U	ug/kg	12	14	U	ug/kg	14	14	U	ug/kg	14	12	U	ug/kg	12

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SUBSURFACE SOIL -- VOLATILES -- REPORT NO. 9617

Lab Sample Number:		C86P7				C86P8			
Site		PSC6				PSC6			
Locator		CF6SB4				CF6SB5			
Collect Date:		15-FEB-97				15-FEB-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW	ug/kg								
Chloromethane		14	U	ug/kg	14	13	U	ug/kg	13
Bromomethane		14	U	ug/kg	14	13	U	ug/kg	13
Vinyl chloride		14	U	ug/kg	14	13	U	ug/kg	13
Chloroethane		14	U	ug/kg	14	13	U	ug/kg	13
Methylene chloride		14	U	ug/kg	14	13	U	ug/kg	13
Acetone		14	U	ug/kg	14	13	U	ug/kg	13
Carbon disulfide		14	U	ug/kg	14	13	U	ug/kg	13
1,1-Dichloroethene		14	U	ug/kg	14	13	U	ug/kg	13
1,1-Dichloroethane		14	U	ug/kg	14	13	U	ug/kg	13
1,2-Dichloroethene (total)		14	U	ug/kg	14	13	U	ug/kg	13
Chloroform		14	U	ug/kg	14	13	U	ug/kg	13
1,2-Dichloroethane		14	U	ug/kg	14	13	U	ug/kg	13
2-Butanone		14	U	ug/kg	14	13	U	ug/kg	13
1,1,1-Trichloroethane		14	U	ug/kg	14	13	U	ug/kg	13
Carbon tetrachloride		14	U	ug/kg	14	13	U	ug/kg	13
Bromodichloromethane		14	U	ug/kg	14	13	U	ug/kg	13
1,2-Dichloropropane		14	U	ug/kg	14	13	U	ug/kg	13
cis-1,3-Dichloropropene		14	U	ug/kg	14	13	U	ug/kg	13
Trichloroethene		14	U	ug/kg	14	13	U	ug/kg	13
Dibromochloromethane		14	U	ug/kg	14	13	U	ug/kg	13
1,1,2-Trichloroethane		14	U	ug/kg	14	13	U	ug/kg	13
Benzene		14	U	ug/kg	14	13	U	ug/kg	13
trans-1,3-Dichloropropene		14	U	ug/kg	14	13	U	ug/kg	13
Bromoform		14	U	ug/kg	14	13	U	ug/kg	13
4-Methyl-2-pentanone		14	U	ug/kg	14	13	U	ug/kg	13
2-Hexanone		14	U	ug/kg	14	13	U	ug/kg	13
Tetrachloroethene		14	U	ug/kg	14	13	U	ug/kg	13
Toluene		14	U	ug/kg	14	13	U	ug/kg	13
1,1,2,2-Tetrachloroethane		14	U	ug/kg	14	13	U	ug/kg	13
Chlorobenzene		14	U	ug/kg	14	13	U	ug/kg	13
Ethylbenzene		14	U	ug/kg	14	13	U	ug/kg	13
Styrene		14	U	ug/kg	14	13	U	ug/kg	13
Xylenes (total)		14	U	ug/kg	14	13	U	ug/kg	13

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SUBSURFACE SOIL -- SEMIVOLATILES -- REPORT NO. 9618

Lab Sample Number:		C86NP				C86P4				C86P5				C86P7			
Site		PSC6				PSC6				PSC6				PSC6			
Locator		CF6SB1				CF6SB2				CF6SB3				CF6SB4			
Collect Date:		15-FEB-97				15-FEB-97				15-FEB-97				15-FEB-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW	ug/kg																
Phenol		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
bis(2-Chloroethyl) ether		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2-Chlorophenol		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
1,3-Dichlorobenzene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
1,4-Dichlorobenzene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
1,2-Dichlorobenzene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2-Methylphenol		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2,2-oxybis(1-Chloropropane)		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
4-Methylphenol		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
N-Nitroso-di-n-propylamine		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Hexachloroethane		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Nitrobenzene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Isophorone		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2-Nitrophenol		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2,4-Dimethylphenol		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
bis(2-Chloroethoxy) methane		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2,4-Dichlorophenol		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
1,2,4-Trichlorobenzene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Naphthalene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
4-Chloroaniline		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Hexachlorobutadiene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
4-Chloro-3-methylphenol		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2-Methylnaphthalene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Hexachlorocyclopentadiene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2,4,6-Trichlorophenol		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2,4,5-Trichlorophenol		970	U	ug/kg	970	1100	U	ug/kg	1100	980	U	ug/kg	980	1100	U	ug/kg	1100
2-Chloronaphthalene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2-Nitroaniline		970	U	ug/kg	970	1100	U	ug/kg	1100	980	U	ug/kg	980	1100	U	ug/kg	1100
Dimethylphthalate		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Acenaphthylene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2,6-Dinitrotoluene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
3-Nitroaniline		970	U	ug/kg	970	1100	U	ug/kg	1100	980	U	ug/kg	980	1100	U	ug/kg	1100
Acenaphthene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2,4-Dinitrophenol		970	U	ug/kg	970	1100	U	ug/kg	1100	980	U	ug/kg	980	1100	U	ug/kg	1100
4-Nitrophenol		970	U	ug/kg	970	1100	U	ug/kg	1100	980	U	ug/kg	980	1100	U	ug/kg	1100
Dibenzofuran		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
2,4-Dinitrotoluene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Diethylphthalate		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
4-Chlorophenyl-phenylether		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Fluorene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
4-Nitroaniline		970	U	ug/kg	970	1100	U	ug/kg	1100	980	U	ug/kg	980	1100	U	ug/kg	1100
4,6-Dinitro-2-methylphenol		970	U	ug/kg	970	1100	U	ug/kg	1100	980	U	ug/kg	980	1100	U	ug/kg	1100
N-Nitrosodiphenylamine		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
4-Bromophenyl-phenylether		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Hexachlorobenzene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Pentachlorophenol		970	U	ug/kg	970	1100	U	ug/kg	1100	980	U	ug/kg	980	1100	U	ug/kg	1100
Phenanthrene		400	U	ug/kg	400	440	U	ug/kg	440	150	J	ug/kg	410	450	U	ug/kg	450
Anthracene		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Carbazole		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Di-n-butylphthalate		400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SUBSURFACE SOIL -- SEMIVOLATILES -- REPORT NO. 9618

Lab Sample Number:	C86NP				C86P4				C86P5				C86P7			
Site	PSC6				PSC6				PSC6				PSC6			
Locator	CF6SB1				CF6SB2				CF6SB3				CF6SB4			
Collect Date:	15-FEB-97				15-FEB-97				15-FEB-97				15-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluoranthene	400	U	ug/kg	400	440	U	ug/kg	440	200	J	ug/kg	410	450	U	ug/kg	450
Pyrene	400	U	ug/kg	400	440	U	ug/kg	440	220	J	ug/kg	410	450	U	ug/kg	450
Butylbenzylphthalate	400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
3,3-Dichlorobenzidine	400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Benzo (a) anthracene	400	U	ug/kg	400	440	U	ug/kg	440	110	J	ug/kg	410	450	U	ug/kg	450
Chrysene	400	U	ug/kg	400	440	U	ug/kg	440	130	J	ug/kg	410	450	U	ug/kg	450
bis(2-Ethylhexyl) phthalate	400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Di-n-octylphthalate	400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Benzo (b) fluoranthene	400	U	ug/kg	400	440	U	ug/kg	440	160	J	ug/kg	410	450	U	ug/kg	450
Benzo (k) fluoranthene	400	U	ug/kg	400	440	U	ug/kg	440	60	J	ug/kg	410	450	U	ug/kg	450
Benzo (a) pyrene	400	U	ug/kg	400	440	U	ug/kg	440	120	J	ug/kg	410	450	U	ug/kg	450
Indeno (1,2,3-cd) pyrene	400	U	ug/kg	400	440	U	ug/kg	440	69	J	ug/kg	410	450	U	ug/kg	450
Dibenzo (a,h) anthracene	400	U	ug/kg	400	440	U	ug/kg	440	410	U	ug/kg	410	450	U	ug/kg	450
Benzo (g,h,i) perylene	400	U	ug/kg	400	440	U	ug/kg	440	65	J	ug/kg	410	450	U	ug/kg	450

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UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SUBSURFACE SOIL -- SEMIVOLATILES -- REPORT NO. 9618

Lab Sample Number:	C86P8			
Site	~~PSC6~~			
Locator	CF6SB5			
Collect Date:	15-FEB-97			
	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW ug/kg				
Phenol	440	U	ug/kg	440
bis(2-Chloroethyl) ether	440	U	ug/kg	440
2-Chlorophenol	440	U	ug/kg	440
1,3-Dichlorobenzene	440	U	ug/kg	440
1,4-Dichlorobenzene	440	U	ug/kg	440
1,2-Dichlorobenzene	440	U	ug/kg	440
2-Methylphenol	440	U	ug/kg	440
2,2-oxybis(1-Chloropropane)	440	U	ug/kg	440
4-Methylphenol	440	U	ug/kg	440
N-Nitroso-di-n-propylamine	440	U	ug/kg	440
Hexachloroethane	440	U	ug/kg	440
Nitrobenzene	440	U	ug/kg	440
Isophorone	440	U	ug/kg	440
2-Nitrophenol	440	U	ug/kg	440
2,4-Dimethylphenol	440	U	ug/kg	440
bis(2-Chloroethoxy) methane	440	U	ug/kg	440
2,4-Dichlorophenol	440	U	ug/kg	440
1,2,4-Trichlorobenzene	440	U	ug/kg	440
Naphthalene	440	U	ug/kg	440
4-Chloroaniline	440	U	ug/kg	440
Hexachlorobutadiene	440	U	ug/kg	440
4-Chloro-3-methylphenol	440	U	ug/kg	440
2-Methylnaphthalene	440	U	ug/kg	440
Hexachlorocyclopentadiene	440	U	ug/kg	440
2,4,6-Trichlorophenol	440	U	ug/kg	440
2,4,5-Trichlorophenol	1100	U	ug/kg	1100
2-Chloronaphthalene	440	U	ug/kg	440
2-Nitroaniline	1100	U	ug/kg	1100
Dimethylphthalate	440	U	ug/kg	440
Acenaphthylene	440	U	ug/kg	440
2,6-Dinitrotoluene	440	U	ug/kg	440
3-Nitroaniline	1100	U	ug/kg	1100
Acenaphthene	440	U	ug/kg	440
2,4-Dinitrophenol	1100	U	ug/kg	1100
4-Nitrophenol	1100	U	ug/kg	1100
Dibenzofuran	440	U	ug/kg	440
2,4-Dinitrotoluene	440	U	ug/kg	440
Diethylphthalate	440	U	ug/kg	440
4-Chlorophenyl-phenylether	440	U	ug/kg	440
Fluorene	440	U	ug/kg	440

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SUBSURFACE SOIL -- SEMIVOLATILES -- REPORT NO. 9618

Lab Sample Number:	C86P8			
Site	~~PSC6~~			
Locator	CF6SB5			
Collect Date:	15-FEB-97			
	VALUE	QUAL	UNITS	DL
4-Nitroaniline	1100	U	ug/kg	1100
4,6-Dinitro-2-methylphenol	1100	U	ug/kg	1100
N-Nitrosodiphenylamine	440	U	ug/kg	440
4-Bromophenyl-phenylether	440	U	ug/kg	440
Hexachlorobenzene	440	U	ug/kg	440
Pentachlorophenol	1100	U	ug/kg	1100
Phenanthrene	440	U	ug/kg	440
Anthracene	440	U	ug/kg	440
Carbazole	440	U	ug/kg	440
Di-n-butylphthalate	440	U	ug/kg	440
Fluoranthene	76	J	ug/kg	440
Pyrene	130	J	ug/kg	440
Butylbenzylphthalate	440	U	ug/kg	440
3,3-Dichlorobenzidine	440	U	ug/kg	440
Benzo (a) anthracene	63	J	ug/kg	440
Chrysene	80	J	ug/kg	440
bis(2-Ethylhexyl) phthalate	440	U	ug/kg	440
Di-n-octylphthalate	440	U	ug/kg	440
Benzo (b) fluoranthene	200	J	ug/kg	440
Benzo (k) fluoranthene	56	J	ug/kg	440
Benzo (a) pyrene	150	J	ug/kg	440
Indeno (1,2,3-cd) pyrene	120	J	ug/kg	440
Dibenzo (a,h) anthracene	440	U	ug/kg	440
Benzo (g,h,i) perylene	140	J	ug/kg	440

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SUBSURFACE SOIL -- PESTICIDES AND PCBs -- REPORT NO. 9619

Lab Sample Number:		C86NB			C86P4			C86P4RE			C86DB		
Site		PSC6			PSC6			PSC6			PSC6		
Locator		CF6SB1			CF6SB2			CF6SB2RE			CF6SB3		
Collect Date:		15-FEB-97			15-FEB-97			15-FEB-97			15-FEB-97		
		VALUE QUAL	UNITS	DL	VALUE QUAL	UNITS	DL	VALUE QUAL	UNITS	DL	VALUE QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW	ug/kg												
alpha-BHC		2 U	ug/kg	2	2.2 U	ug/kg	2.2	2.1 U	ug/kg	2.1	2 U	ug/kg	2
beta-BHC		2 U	ug/kg	2	2.2 U	ug/kg	2.2	2.1 U	ug/kg	2.1	2 U	ug/kg	2
delta-BHC		2 U	ug/kg	2	2.2 U	ug/kg	2.2	2.1 U	ug/kg	2.1	2 U	ug/kg	2
gamma-BHC (Lindane)		2 U	ug/kg	2	2.2 U	ug/kg	2.2	2.1 U	ug/kg	2.1	2 U	ug/kg	2
Heptachlor		2 U	ug/kg	2	2.2 U	ug/kg	2.2	2.1 U	ug/kg	2.1	2 U	ug/kg	2
Aldrin		.096 J	ug/kg	2	.13 J	ug/kg	2	2.1 U	ug/kg	2.1	2 U	ug/kg	2
Heptachlor epoxide		2 U	ug/kg	2	2.2 U	ug/kg	2.2	2.1 U	ug/kg	2.1	2 U	ug/kg	2
Endosulfan I		2 U	ug/kg	2	2.2 U	ug/kg	2.2	2.1 U	ug/kg	2.1	.26 J	ug/kg	2
Dieldrin		4 U	ug/kg	4	4.5 U	ug/kg	4.5	4.3 U	ug/kg	4.3	4.1 U	ug/kg	4.1
4,4-DDE		4 U	ug/kg	4	1.5 J	ug/kg	4	.71 J	ug/kg	4	13	ug/kg	4
Endrin		4 U	ug/kg	4	4.5 U	ug/kg	4.5	.82 J	ug/kg	4	4.1 U	ug/kg	4.1
Endosulfan II		4 U	ug/kg	4	4.5 U	ug/kg	4.5	4.3 U	ug/kg	4.3	4.1 U	ug/kg	4.1
4,4-DDD		4 U	ug/kg	4	4.5 U	ug/kg	4.5	4.3 U	ug/kg	4.3	4.1 U	ug/kg	4.1
Endosulfan sulfate		4 U	ug/kg	4	4.5 U	ug/kg	4.5	4.3 U	ug/kg	4.3	4.1 U	ug/kg	4.1
4,4-DDT		4 U	ug/kg	4	4.5 U	ug/kg	4.5	4.3 U	ug/kg	4.3	4.1 U	ug/kg	4.1
Methoxychlor		20 U	ug/kg	20	22 U	ug/kg	22	21 U	ug/kg	21	20 U	ug/kg	20
Endrin ketone		4 U	ug/kg	4	4.5 U	ug/kg	4.5	4.3 U	ug/kg	4.3	4.1 U	ug/kg	4.1
Endrin aldehyde		4 U	ug/kg	4	4.5 U	ug/kg	4.5	4.3 U	ug/kg	4.3	4.1 U	ug/kg	4.1
alpha-Chlordane		2 U	ug/kg	2	.81 J	ug/kg	2	.43 J	ug/kg	2	9.9	ug/kg	2
gamma-Chlordane		2 U	ug/kg	2	.2 J	ug/kg	2	2.1 U	ug/kg	2.1	9.6	ug/kg	2
Toxaphene		200 U	ug/kg	200	220 U	ug/kg	220	210 U	ug/kg	210	200 U	ug/kg	200
Aroclor-1016		40 U	ug/kg	40	45 U	ug/kg	45	43 U	ug/kg	43	41 U	ug/kg	41
Aroclor-1221		81 U	ug/kg	81	89 U	ug/kg	89	86 U	ug/kg	86	82 U	ug/kg	82
Aroclor-1232		40 U	ug/kg	40	45 U	ug/kg	45	43 U	ug/kg	43	41 U	ug/kg	41
Aroclor-1242		40 U	ug/kg	40	45 U	ug/kg	45	43 U	ug/kg	43	41 U	ug/kg	41
Aroclor-1248		40 U	ug/kg	40	45 U	ug/kg	45	43 U	ug/kg	43	41 U	ug/kg	41
Aroclor-1254		40 U	ug/kg	40	45 U	ug/kg	45	43 U	ug/kg	43	78	ug/kg	41
Aroclor-1260		40 U	ug/kg	40	45 U	ug/kg	45	43 U	ug/kg	43	41 U	ug/kg	41

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SUBSURFACE SOIL -- PESTICIDES AND PCBs -- REPORT NO. 9619

Lab Sample Number:	C86P5RE				C86P7				C86P7RE				C86P8			
Site	~~PSC6~~				~~PSC6~~				~~PSC6~~				~~PSC6~~			
Locator	CF6SB3RE				CF6SB4				CF6SB4RE				CF6SB5			
Collect Date:	15-FEB-97				15-FEB-97				15-FEB-97				15-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW ug/kg																
alpha-BHC	2	U	ug/kg	2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2
beta-BHC	2	U	ug/kg	2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2
delta-BHC	2	U	ug/kg	2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2
gamma-BHC (Lindane)	2	U	ug/kg	2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2
Heptachlor	2	U	ug/kg	2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2
Aldrin	2	U	ug/kg	2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2
Heptachlor epoxide	2	U	ug/kg	2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2
Endosulfan I	2	U	ug/kg	2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2
Dieldrin	4.1	U	ug/kg	4.1	4.5	U	ug/kg	4.5	4.5	U	ug/kg	4.5	4.4	U	ug/kg	4.4
4,4-DDE	15		ug/kg	4	4.5	U	ug/kg	4.5	.13	J	ug/kg	4	1.6	J	ug/kg	4
Endrin	4.1	U	ug/kg	4.1	4.5	U	ug/kg	4.5	4.5	U	ug/kg	4.5	4.4	U	ug/kg	4.4
Endosulfan II	4.1	U	ug/kg	4.1	4.5	U	ug/kg	4.5	4.5	U	ug/kg	4.5	4.4	U	ug/kg	4.4
4,4-DDD	.83	J	ug/kg	4	4.5	U	ug/kg	4.5	4.5	U	ug/kg	4.5	4.4	U	ug/kg	4.4
Endosulfan sulfate	4.1	U	ug/kg	4.1	4.5	U	ug/kg	4.5	4.5	U	ug/kg	4.5	4.4	U	ug/kg	4.4
4,4-DDT	4.1	U	ug/kg	4.1	.2	J	ug/kg	4	4.5	U	ug/kg	4.5	4.4	U	ug/kg	4.4
Methoxychlor	20	U	ug/kg	20	22	U	ug/kg	22	22	U	ug/kg	22	22	U	ug/kg	22
Endrin ketone	4.1	U	ug/kg	4.1	4.5	U	ug/kg	4.5	4.5	U	ug/kg	4.5	4.4	U	ug/kg	4.4
Endrin aldehyde	4.1	U	ug/kg	4.1	4.5	U	ug/kg	4.5	4.5	U	ug/kg	4.5	4.4	U	ug/kg	4.4
alpha-Chlordane	8.1		ug/kg	2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2	.23	J	ug/kg	2
gamma-Chlordane	8.3		ug/kg	2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2	2.2	U	ug/kg	2.2
Toxaphene	200	U	ug/kg	200	220	U	ug/kg	220	220	U	ug/kg	220	220	U	ug/kg	220
Aroclor-1016	41	U	ug/kg	41	45	U	ug/kg	45	45	U	ug/kg	45	44	U	ug/kg	44
Aroclor-1221	82	U	ug/kg	82	90	U	ug/kg	90	90	U	ug/kg	90	89	U	ug/kg	89
Aroclor-1232	41	U	ug/kg	41	45	U	ug/kg	45	45	U	ug/kg	45	44	U	ug/kg	44
Aroclor-1242	41	U	ug/kg	41	45	U	ug/kg	45	45	U	ug/kg	45	44	U	ug/kg	44
Aroclor-1248	41	U	ug/kg	41	45	U	ug/kg	45	45	U	ug/kg	45	44	U	ug/kg	44
Aroclor-1254	39	J	ug/kg	40	45	U	ug/kg	45	45	U	ug/kg	45	44	U	ug/kg	44
Aroclor-1260	41	U	ug/kg	41	45	U	ug/kg	45	45	U	ug/kg	45	44	U	ug/kg	44

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R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SUBSURFACE SOIL -- PESTICIDES AND PCBs -- REPORT NO. 9619

Lab Sample Number:	CF6P8RE			
Site	PSC6			
Locator	CF6SB5RE			
Collect Date:	15-FEB-97			
	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW ug/kg				
alpha-BHC	2.2	U	ug/kg	2.2
beta-BHC	2.2	U	ug/kg	2.2
delta-BHC	2.2	U	ug/kg	2.2
gamma-BHC (Lindane)	2.2	U	ug/kg	2.2
Heptachlor	2.2	U	ug/kg	2.2
Aldrin	.18	J	ug/kg	2
Heptachlor epoxide	2.2	U	ug/kg	2.2
Endosulfan I	2.2	U	ug/kg	2.2
Dieldrin	4.4	U	ug/kg	4.4
4,4-DDE	2.8	J	ug/kg	4
Endrin	4.4	U	ug/kg	4.4
Endosulfan II	4.4	U	ug/kg	4.4
4,4-DDD	4.4	U	ug/kg	4.4
Endosulfan sulfate	4.4	U	ug/kg	4.4
4,4-DDT	4.4	U	ug/kg	4.4
Methoxychlor	22	U	ug/kg	22
Endrin ketone	4.4	U	ug/kg	4.4
Endrin aldehyde	4.4	U	ug/kg	4.4
alpha-Chlordane	.45	J	ug/kg	2
gamma-Chlordane	.46	J	ug/kg	2
Toxaphene	220	U	ug/kg	220
Aroclor-1016	44	U	ug/kg	44
Aroclor-1221	89	U	ug/kg	89
Aroclor-1232	44	U	ug/kg	44
Aroclor-1242	44	U	ug/kg	44
Aroclor-1248	44	U	ug/kg	44
Aroclor-1254	44	U	ug/kg	44
Aroclor-1260	44	U	ug/kg	44

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SUBSURFACE SOIL -- INORGANICS -- REPORT NO. 9620

Lab Sample Number:	C86NP				C86P6				C86P5				C86P7			
Site	~~PSC6~~				PSC6				PSC6				~~PSC6~~			
Locator	CF6SB1				CF6SB2				CF6SB3				CF6SB4			
Collect Date:	15-FEB-97				15-FEB-97				15-FEB-97				15-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE mg/kg																
Aluminum	7140		mg/kg	40	2980		mg/kg	40	2230		mg/kg	40	1820		mg/kg	40
Antimony	.73	U	mg/kg	12	1.9	J	mg/kg	12	.74	U	mg/kg	12	.81	U	mg/kg	12
Arsenic	.48	U	mg/kg	2	7.7		mg/kg	2	1	J	mg/kg	2	.54	U	mg/kg	2
Barium	6.5	J	mg/kg	40	41.2	J	mg/kg	40	6.4	J	mg/kg	40	4.6	J	mg/kg	40
Beryllium	.24	U	mg/kg	1	.27	U	mg/kg	1	.25	U	mg/kg	1	.27	U	mg/kg	1
Cadmium	.24	U	mg/kg	1	.27	U	mg/kg	1	.25	U	mg/kg	1	.27	U	mg/kg	1
Calcium	146	J	mg/kg	1000	10500		mg/kg	1000	13800		mg/kg	1000	82.9	J	mg/kg	1000
Chromium	7		mg/kg	2	14.8		mg/kg	2	4		mg/kg	2	2.2	J	mg/kg	2
Cobalt	.41	J	mg/kg	10	1.6	J	mg/kg	10	.25	U	mg/kg	10	.38	J	mg/kg	10
Copper	1.8	J	mg/kg	5	152		mg/kg	5	1.8	J	mg/kg	5	.27	U	mg/kg	5
Iron	1020	J	mg/kg	20	13800	J	mg/kg	20	672	J	mg/kg	20	200	J	mg/kg	20
Lead	5.2		mg/kg	.6	88.1		mg/kg	.6	31.8		mg/kg	.6	2.9		mg/kg	.6
Magnesium	235	J	mg/kg	1000	1260	J	mg/kg	1000	137	J	mg/kg	1000	44.8	J	mg/kg	1000
Manganese	3.2	J	mg/kg	3	105		mg/kg	3	8.9		mg/kg	3	4.2		mg/kg	3
Mercury	.06	U	mg/kg	.1	.07	U	mg/kg	.1	.06	U	mg/kg	.1	.07	U	mg/kg	.1
Nickel	1.8	J	mg/kg	8	7.2	J	mg/kg	8	1.6	J	mg/kg	8	.88	J	mg/kg	8
Potassium	215	J	mg/kg	1000	102	J	mg/kg	1000	35	J	mg/kg	1000	22.3	J	mg/kg	1000
Selenium	.97	U	mg/kg	1	1.1	U	mg/kg	1	.99	U	mg/kg	1	1.3	J	mg/kg	1
Silver	.24	U	mg/kg	2	.27	U	mg/kg	2	.25	U	mg/kg	2	.27	U	mg/kg	2
Sodium	26.9	U	mg/kg	1000	91.7	J	mg/kg	1000	27.3	U	mg/kg	1000	30.1	U	mg/kg	1000
Thallium	.73	U	mg/kg	2	.81	U	mg/kg	2	.74	U	mg/kg	2	.81	U	mg/kg	2
Vanadium	6.4	J	mg/kg	10	9.5	J	mg/kg	10	4.6	J	mg/kg	10	2.5	J	mg/kg	10
Zinc	.96	J	mg/kg	4	280		mg/kg	4	26.6		mg/kg	4	2.8	J	mg/kg	4
Cyanide	.07	U	mg/kg	.5	.15	J	mg/kg	.5	.07	U	mg/kg	.5	.08	J	mg/kg	.5

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SUBSURFACE SOIL -- INORGANICS -- REPORT NO. 9620

Lab Sample Number:	C86P8
Site	P9C6
Locator	CF6SB5
Collect Date:	15-FEB-97

	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE mg/kg				
Aluminum	1140		mg/kg	40
Antimony	.79	U	mg/kg	12
Arsenic	.89	J	mg/kg	2
Barium	8.1	J	mg/kg	40
Beryllium	.26	U	mg/kg	1
Cadmium	.27	J	mg/kg	1
Calcium	26300		mg/kg	1000
Chromium	2.4	J	mg/kg	2
Cobalt	.26	U	mg/kg	10
Copper	4.7	J	mg/kg	5
Iron	466	J	mg/kg	20
Lead	6		mg/kg	.6
Magnesium	264	J	mg/kg	1000
Manganese	9.9		mg/kg	3
Mercury	.16		mg/kg	.1
Nickel	1	J	mg/kg	8
Potassium	27.2	J	mg/kg	1000
Selenium	1.3	J	mg/kg	1
Silver	.48	J	mg/kg	2
Sodium	29.3	U	mg/kg	1000
Thallium	.79	U	mg/kg	2
Vanadium	2.5	J	mg/kg	10
Zinc	9.8		mg/kg	4
Cyanide	.21	J	mg/kg	.5

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
GROUNDWATER -- VOLATILES -- REPORT NO. 9622

Lab Sample Number:	CAPL6				CAPL8				CATPK				CATPJ			
Site	PSC6				PSC6				PSC6				PSC6			
Locator	CF6MW1S				CF6MW2S				CF6MW3S				CF6MW4S			
Collect Date:	16-JUL-97				16-JUL-97				21-JUL-97				21-JUL-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW	ug/l															
Chloromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Bromomethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Vinyl chloride	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Chloroethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Methylene chloride	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Acetone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Carbon disulfide	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,1-Dichloroethene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,1-Dichloroethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,2-Dichloroethene (total)	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Chloroform	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,2-Dichloroethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Butanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,1,1-Trichloroethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Carbon tetrachloride	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Bromodichloromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,2-Dichloropropane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
cis-1,3-Dichloropropene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Trichloroethene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Dibromochloromethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,1,2-Trichloroethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
trans-1,3-Dichloropropene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Bromoform	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Methyl-2-pentanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Hexanone	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Tetrachloroethene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Toluene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,1,2,2-Tetrachloroethane	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Chlorobenzene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Ethylbenzene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Styrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Xylenes (total)	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
GROUNDWATER -- VOLATILES -- REPORT NO. 9622

Lab Sample Number:		CATP		
Site		PSC6		
Locator		CF6MW5S		
Collect Date:		21-JUL-97		
	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW	ug/l			
Chloromethane		10	U	ug/l	10
Bromomethane		10	U	ug/l	10
Vinyl chloride		10	U	ug/l	10
Chloroethane		10	U	ug/l	10
Methylene chloride		10	U	ug/l	10
Acetone		10	U	ug/l	10
Carbon disulfide		10	U	ug/l	10
1,1-Dichloroethene		10	U	ug/l	10
1,1-Dichloroethane		10	U	ug/l	10
1,2-Dichloroethene (total)		10	U	ug/l	10
Chloroform		10	U	ug/l	10
1,2-Dichloroethane		10	U	ug/l	10
2-Butanone		10	U	ug/l	10
1,1,1-Trichloroethane		10	U	ug/l	10
Carbon tetrachloride		10	U	ug/l	10
Bromodichloromethane		10	U	ug/l	10
1,2-Dichloropropane		10	U	ug/l	10
cis-1,3-Dichloropropene		10	U	ug/l	10
Trichloroethene		10	U	ug/l	10
Dibromochloromethane		10	U	ug/l	10
1,1,2-Trichloroethane		10	U	ug/l	10
Benzene		10	U	ug/l	10
trans-1,3-Dichloropropene		10	U	ug/l	10
Bromoform		10	U	ug/l	10
4-Methyl-2-pentanone		10	U	ug/l	10
2-Hexanone		10	U	ug/l	10
Tetrachloroethene		10	U	ug/l	10
Toluene		10	U	ug/l	10
1,1,2,2-Tetrachloroethane		10	U	ug/l	10
Chlorobenzene		10	U	ug/l	10
Ethylbenzene		10	U	ug/l	10
Styrene		10	U	ug/l	10
Xylenes (total)		10	U	ug/l	10

U = NOT DETECTED J = ESTIMATED VALUE
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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
GROUNDWATER -- SEMIVOLATILES -- REPORT NO. 9623

Lab Sample Number:		CAPL8				CAPL8				CATPK				CATPJ		
Site		PSC6				PSC6				PSC6				PSC6		
Locator		CF6MW1S				CF6MW2S				CF6MW3S				CF6MW4S		
Collect Date:		16-JUL-97				16-JUL-97				21-JUL-97				21-JUL-97		
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW	ug/l																
Phenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
bis(2-Chloroethyl) ether		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Chlorophenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,3-Dichlorobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,4-Dichlorobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,2-Dichlorobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Methylphenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,2-oxybis(1-Chloropropane)		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Methylphenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
N-Nitroso-di-n-propylamine		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Hexachloroethane		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Nitrobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Isophorone		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Nitrophenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4-Dimethylphenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
bis(2-Chloroethoxy) methane		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4-Dichlorophenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,2,4-Trichlorobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Naphthalene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Chloroaniline		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Hexachlorobutadiene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Chloro-3-methylphenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Methylnaphthalene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Hexachlorocyclopentadiene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4,6-Trichlorophenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4,5-Trichlorophenol		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
2-Chloronaphthalene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Nitroaniline		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
Dimethylphthalate		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Acenaphthylene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,6-Dinitrotoluene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
3-Nitroaniline		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
Acenaphthene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4-Dinitrophenol		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
4-Nitrophenol		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
Dibenzofuran		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4-Dinitrotoluene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Diethylphthalate		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Chlorophenyl-phenylether		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Fluorene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Nitroaniline		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
4,6-Dinitro-2-methylphenol		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
N-Nitrosodiphenylamine		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Bromophenyl-phenylether		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Hexachlorobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Pentachlorophenol		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
Phenanthrene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Anthracene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Carbazole		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Di-n-butylphthalate		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
GROUNDWATER -- SEMIVOLATILES -- REPORT NO. 9623

Lab Sample Number:	CAPL6				CAPL8				CATPK				CATPJ			
Site	PSC6				PSC6				PSC6				PSC6			
Locator	CF6MW1S				CF6MW2S				CF6MW3S				CF6MW4S			
Collect Date:	16-JUL-97				16-JUL-97				21-JUL-97				21-JUL-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Butylbenzylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
3,3-Dichlorobenzidine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (a) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Chrysene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Di-n-octylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (b) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (k) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (a) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Dibenzo (a,h) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (g,h,i) perylene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
GROUNDWATER -- SEMIVOLATILES -- REPORT NO. 9623

Lab Sample Number:		CATPL		
Site		PSC6		
Locator		CF6MW5S		
Collect Date:		21-JUL-97		
	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW	ug/l			
Phenol		10 U	ug/l	10
bis(2-Chloroethyl) ether		10 U	ug/l	10
2-Chlorophenol		10 U	ug/l	10
1,3-Dichlorobenzene		10 U	ug/l	10
1,4-Dichlorobenzene		10 U	ug/l	10
1,2-Dichlorobenzene		10 U	ug/l	10
2-Methylphenol		10 U	ug/l	10
2,2-oxybis(1-Chloropropane)		10 U	ug/l	10
4-Methylphenol		10 U	ug/l	10
N-Nitroso-di-n-propylamine		10 U	ug/l	10
Hexachloroethane		10 U	ug/l	10
Nitrobenzene		10 U	ug/l	10
Isophorone		10 U	ug/l	10
2-Nitrophenol		10 U	ug/l	10
2,4-Dimethylphenol		10 U	ug/l	10
bis(2-Chloroethoxy) methane		10 U	ug/l	10
2,4-Dichlorophenol		10 U	ug/l	10
1,2,4-Trichlorobenzene		10 U	ug/l	10
Naphthalene		10 U	ug/l	10
4-Chloroaniline		10 U	ug/l	10
Hexachlorobutadiene		10 U	ug/l	10
4-Chloro-3-methylphenol		10 U	ug/l	10
2-Methylnaphthalene		10 U	ug/l	10
Hexachlorocyclopentadiene		10 U	ug/l	10
2,4,6-Trichlorophenol		10 U	ug/l	10
2,4,5-Trichlorophenol		25 U	ug/l	25
2-Chloronaphthalene		10 U	ug/l	10
2-Nitroaniline		25 U	ug/l	25
Dimethylphthalate		10 U	ug/l	10
Acenaphthylene		10 U	ug/l	10
2,6-Dinitrotoluene		10 U	ug/l	10
3-Nitroaniline		25 U	ug/l	25
Acenaphthene		10 U	ug/l	10
2,4-Dinitrophenol		25 U	ug/l	25
4-Nitrophenol		25 U	ug/l	25
Dibenzofuran		10 U	ug/l	10
2,4-Dinitrotoluene		10 U	ug/l	10
Diethylphthalate		10 U	ug/l	10
4-Chlorophenyl-phenylether		10 U	ug/l	10
Fluorene		10 U	ug/l	10

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
GROUNDWATER -- SEMIVOLATILES -- REPORT NO. 9623

Lab Sample Number:	CATPI			
Site	PSC6			
Locator	CF6MW5S			
Collect Date:	21-JUL-97			
	VALUE	QUAL	UNITS	DL
4-Nitroaniline	25	U	ug/l	25
4,6-Dinitro-2-methylphenol	25	U	ug/l	25
N-Nitrosodiphenylamine	10	U	ug/l	10
4-Bromophenyl-phenylether	10	U	ug/l	10
Hexachlorobenzene	10	U	ug/l	10
Pentachlorophenol	25	U	ug/l	25
Phenanthrene	10	U	ug/l	10
Anthracene	10	U	ug/l	10
Carbazole	10	U	ug/l	10
Di-n-butylphthalate	10	U	ug/l	10
Fluoranthene	10	U	ug/l	10
Pyrene	10	U	ug/l	10
Butylbenzylphthalate	10	U	ug/l	10
3,3-Dichlorobenzidine	10	U	ug/l	10
Benzo (a) anthracene	10	U	ug/l	10
Chrysene	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	1	J	ug/l	10
Di-n-octylphthalate	10	U	ug/l	10
Benzo (b) fluoranthene	10	U	ug/l	10
Benzo (k) fluoranthene	10	U	ug/l	10
Benzo (a) pyrene	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	10	U	ug/l	10
Dibenzo (a,h) anthracene	10	U	ug/l	10
Benzo (g,h,i) perylene	10	U	ug/l	10

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
GROUNDWATER -- PESTICIDES AND PCBs -- REPORT NO. 9624

Lab Sample Number:	CAPL0				CAPL8				CATPK				CATPJ			
Site	PSC6				PSC6				PSC6				PSC6			
Locator	CF6MW1S				CF6MW2S				CF6MW3S				CF6MW4S			
Collect Date:	16-JUL-97				16-JUL-97				21-JUL-97				21-JUL-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW ug/l																
alpha-BHC	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
beta-BHC	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
delta-BHC	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
gamma-BHC (Lindane)	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Heptachlor	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Aldrin	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Heptachlor epoxide	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Endosulfan I	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Dieldrin	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDE	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Endrin	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Endosulfan II	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDD	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Endosulfan sulfate	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDT	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Methoxychlor	.5	U	ug/l	.5	.5	U	ug/l	.5	.5	U	ug/l	.5	.5	U	ug/l	.5
Endrin ketone	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Endrin aldehyde	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
alpha-Chlordane	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
gamma-Chlordane	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Toxaphene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Aroclor-1016	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1221	2	U	ug/l	2	2	U	ug/l	2	2	U	ug/l	2	2	U	ug/l	2
Aroclor-1232	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1242	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1248	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1254	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1260	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
GROUNDWATER -- PESTICIDES AND PCBs -- REPORT NO. 9624

Lab Sample Number:		CATPI				CATPLRE			
Site		~~RSC6~~				~~PSC6~~			
Locator		CF6MW5S				CF6MW5SRE			
Collect Date:		21-JUL-97				21-JUL-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW	ug/l								
alpha-BHC		.05	U	ug/l	.05	.05	U	ug/l	.05
beta-BHC		.05	U	ug/l	.05	.05	U	ug/l	.05
delta-BHC		.05	U	ug/l	.05	.05	U	ug/l	.05
gamma-BHC (Lindane)		.05	U	ug/l	.05	.05	U	ug/l	.05
Heptachlor		.05	U	ug/l	.05	.05	U	ug/l	.05
Aldrin		.05	U	ug/l	.05	.05	U	ug/l	.05
Heptachlor epoxide		.05	U	ug/l	.05	.05	U	ug/l	.05
Endosulfan I		.05	U	ug/l	.05	.05	U	ug/l	.05
Dieldrin		.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDE		.1	U	ug/l	.1	.1	U	ug/l	.1
Endrin		.1	U	ug/l	.1	.1	U	ug/l	.1
Endosulfan II		.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDD		.1	U	ug/l	.1	.1	U	ug/l	.1
Endosulfan sulfate		.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDT		.1	U	ug/l	.1	.051	J	ug/l	
Methoxychlor		.5	U	ug/l	.5	.5	U	ug/l	.5
Endrin ketone		.1	U	ug/l	.1	.1	U	ug/l	.1
Endrin aldehyde		.1	U	ug/l	.1	.1	U	ug/l	.1
alpha-Chlordane		.05	U	ug/l	.05	.05	U	ug/l	.05
gamma-Chlordane		.05	U	ug/l	.05	.05	U	ug/l	.05
Toxaphene		5	U	ug/l	5	5	U	ug/l	5
Aroclor-1016		1	U	ug/l	1	1	U	ug/l	1
Aroclor-1221		2	U	ug/l	2	2	U	ug/l	2
Aroclor-1232		1	U	ug/l	1	1	U	ug/l	1
Aroclor-1242		1	U	ug/l	1	1	U	ug/l	1
Aroclor-1248		1	U	ug/l	1	1	U	ug/l	1
Aroclor-1254		1	U	ug/l	1	1	U	ug/l	1
Aroclor-1260		1	U	ug/l	1	1	U	ug/l	1

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
GROUNDWATER -- INORGANICS -- REPORT NO. 9625

Lab Sample Number:	CAPL6				CAPL8				CATP				CATP			
Site	~~PSC8~~ PSC6				~~PSC8~~ PSC6				~~PSC8~~ PSC6				PSC6			
Locator	CF6MW1S				CF6MW2S				CF6MW3S				CF6MW4S			
Collect Date:	16-JUL-97				16-JUL-97				21-JUL-97				21-JUL-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE ug/l																
Aluminum	376		ug/l	200	93.7	J	ug/l	200	53.9	J	ug/l	200	202		ug/l	200
Antimony	23.8	U	ug/l	60	23.8	U	ug/l	60	23.8	U	ug/l	60	23.8	U	ug/l	60
Arsenic	4.4	U	ug/l	10	4.4	U	ug/l	10	4.4	U	ug/l	10	4.4	U	ug/l	10
Barium	25.6	J	ug/l	200	269		ug/l	200	50.9	J	ug/l	200	35.5	J	ug/l	200
Beryllium	.4	U	ug/l	5	.4	U	ug/l	5	.4	U	ug/l	5	.4	U	ug/l	5
Cadmium	.3	U	ug/l	5	.3	U	ug/l	5	.3	U	ug/l	5	.3	U	ug/l	5
Calcium	9370		ug/l	5000	203000		ug/l	5000	163000		ug/l	5000	644	J	ug/l	5000
Chromium	1.8	U	ug/l	10	1.8	U	ug/l	10	2.1	J	ug/l	10	1.8	U	ug/l	10
Cobalt	1.2	U	ug/l	50	1.2	U	ug/l	50	1.6	J	ug/l	50	1.2	U	ug/l	50
Copper	3.9	U	ug/l	25	3.9	U	ug/l	25	4	J	ug/l	25	4.2	J	ug/l	25
Iron	59.4	J	ug/l	100	2890		ug/l	100	6150		ug/l	100	1120		ug/l	100
Lead	2.2	U	ug/l	3	2.2	U	ug/l	3	2.2	U	ug/l	3	2.2	U	ug/l	3
Magnesium	1030	J	ug/l	5000	33800		ug/l	5000	4750	J	ug/l	5000	1280	J	ug/l	5000
Manganese	1.9	J	ug/l	15	245		ug/l	15	364		ug/l	15	22.1		ug/l	15
Mercury	.11	J	ug/l	.2	.11	J	ug/l	.2	.12	J	ug/l	.2	.1	J	ug/l	.2
Nickel	2.8	U	ug/l	40	3.1	J	ug/l	40	3.6	J	ug/l	40	4.8	J	ug/l	40
Potassium	240	J	ug/l	5000	12400		ug/l	5000	2590	J	ug/l	5000	66.1	U	ug/l	5000
Selenium	4.1	U	ug/l	5	4.1	U	ug/l	5	4.1	U	ug/l	5	4.1	U	ug/l	5
Silver	1	U	ug/l	10	1	U	ug/l	10	1	U	ug/l	10	1	U	ug/l	10
Sodium	2700	J	ug/l	5000	11200	J	ug/l	5000	10800	J	ug/l	5000	3200	J	ug/l	5000
Thallium	5.9	U	ug/l	10	5.9	U	ug/l	10	5.9	U	ug/l	10	5.9	U	ug/l	10
Vanadium	2.6	J	ug/l	50	2	J	ug/l	50	2.7	J	ug/l	50	1	U	ug/l	50
Zinc	19.2	J	ug/l	20	13.2	J	ug/l	20	9.4	J	ug/l	20	5.3	U	ug/l	20
Cyanide	1.5	U	ug/l	10	1.5	U	ug/l	10	1.5	U	ug/l	10	1.5	U	ug/l	10

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
GROUNDWATER -- INORGANICS -- REPORT NO. 9625

Lab Sample Number:	CATFL			
Site	PSC6			
Locator	CF6MW5S			
Collect Date:	21-JUL-97			
	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE ug/l				
Aluminum	754		ug/l	200
Antimony	23.8	U	ug/l	60
Arsenic	4.4	U	ug/l	10
Barium	48.3	J	ug/l	200
Beryllium	.4	U	ug/l	5
Cadmium	.3	U	ug/l	5
Calcium	6730		ug/l	5000
Chromium	1.8	U	ug/l	10
Cobalt	1.2	U	ug/l	50
Copper	3.9	U	ug/l	25
Iron	661		ug/l	100
Lead	2.2	U	ug/l	3
Magnesium	2890	J	ug/l	5000
Manganese	7.2	J	ug/l	15
Mercury	.11	J	ug/l	.2
Nickel	2.8	U	ug/l	40
Potassium	1900	J	ug/l	5000
Selenium	4.1	U	ug/l	5
Silver	1	U	ug/l	10
Sodium	3100	J	ug/l	5000
Thallium	5.9	U	ug/l	10
Vanadium	1.8	J	ug/l	50
Zinc	5.3	U	ug/l	20
Cyanide	1.5	U	ug/l	10

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE WATER -- VOLATILES -- REPORT NO. 9626

Lab Sample Number:		C842K				C4W8T				C4V9K				C842P			
Site		PSC6				CECTLBRAC2				CECTLBRAC2				PSC6			
Locator		CF6SW1				57W00201				57W00301				CF6SW4			
Collect Date:		11-FEB-97				18-JUL-96				17-JUL-96				11-FEB-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW	ug/l																
Chloromethane		10	U	ug/l	10	2	U	ug/l	2	2	U	ug/l	2	10	U	ug/l	10
Bromomethane		10	U	ug/l	10	2	U	ug/l	2	2	U	ug/l	2	10	U	ug/l	10
Vinyl chloride		10	U	ug/l	10	2	U	ug/l	2	2	U	ug/l	2	10	U	ug/l	10
Chloroethane		10	U	ug/l	10	2	U	ug/l	2	2	U	ug/l	2	10	U	ug/l	10
Methylene chloride		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Acetone		10	U	ug/l	10	3		ug/l	2	2	U	ug/l	2	10	U	ug/l	10
Carbon disulfide		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
1,1-Dichloroethene		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
1,1-Dichloroethane		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
1,2-Dichloroethene (total)		10	U	ug/l	10	1	U	ug/l	1	1		ug/l	2	10	U	ug/l	10
Chloroform		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
1,2-Dichloroethane		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
2-Butanone		10	U	ug/l	10	2	U	ug/l	2	2	U	ug/l	2	10	U	ug/l	10
1,1,1-Trichloroethane		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Carbon tetrachloride		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Bromodichloromethane		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
1,2-Dichloropropane		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
cis-1,3-Dichloropropene		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Trichloroethene		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Dibromochloromethane		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
1,1,2-Trichloroethane		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Benzene		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
trans-1,3-Dichloropropene		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Bromoform		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
4-Methyl-2-pentanone		10	U	ug/l	10	2	U	ug/l	2	2	U	ug/l	2	10	U	ug/l	10
2-Hexanone		10	U	ug/l	10	2	U	ug/l	2	2	U	ug/l	2	10	U	ug/l	10
Tetrachloroethene		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Toluene		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
1,1,2,2-Tetrachloroethane		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Chlorobenzene		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Ethylbenzene		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Styrene		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10
Xylenes (total)		10	U	ug/l	10	1	U	ug/l	1	1	U	ug/l	1	10	U	ug/l	10

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE WATER -- VOLATILES -- REPORT NO. 9626

Lab Sample Number:		C842C				C84CC		
Site		PSC6				~~PSC6~~		
Locator		CF6SW5				CF6SW6		
Collect Date:		11-FEB-97				12-FEB-97		
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW	ug/l								
Chloromethane		10	U	ug/l	10	10	U	ug/l	10
Bromomethane		10	U	ug/l	10	10	U	ug/l	10
Vinyl chloride		10	U	ug/l	10	10	U	ug/l	10
Chloroethane		10	U	ug/l	10	10	U	ug/l	10
Methylene chloride		10	U	ug/l	10	10	U	ug/l	10
Acetone		10	U	ug/l	10	10	U	ug/l	10
Carbon disulfide		10	U	ug/l	10	10	U	ug/l	10
1,1-Dichloroethene		10	U	ug/l	10	10	U	ug/l	10
1,1-Dichloroethane		10	U	ug/l	10	10	U	ug/l	10
1,2-Dichloroethene (total)		10	U	ug/l	10	10	U	ug/l	10
Chloroform		10	U	ug/l	10	10	U	ug/l	10
1,2-Dichloroethane		10	U	ug/l	10	10	U	ug/l	10
2-Butanone		10	U	ug/l	10	10	U	ug/l	10
1,1,1-Trichloroethane		10	U	ug/l	10	10	U	ug/l	10
Carbon tetrachloride		10	U	ug/l	10	10	U	ug/l	10
Bromodichloromethane		10	U	ug/l	10	10	U	ug/l	10
1,2-Dichloropropane		10	U	ug/l	10	10	U	ug/l	10
cis-1,3-Dichloropropene		10	U	ug/l	10	10	U	ug/l	10
Trichloroethene		10	U	ug/l	10	10	U	ug/l	10
Dibromochloromethane		10	U	ug/l	10	10	U	ug/l	10
1,1,2-Trichloroethane		10	U	ug/l	10	10	U	ug/l	10
Benzene		10	U	ug/l	10	10	U	ug/l	10
trans-1,3-Dichloropropene		10	U	ug/l	10	10	U	ug/l	10
Bromoform		10	U	ug/l	10	10	U	ug/l	10
4-Methyl-2-pentanone		10	U	ug/l	10	10	U	ug/l	10
2-Hexanone		10	U	ug/l	10	10	U	ug/l	10
Tetrachloroethene		10	U	ug/l	10	10	U	ug/l	10
Toluene		10	U	ug/l	10	10	U	ug/l	10
1,1,2,2-Tetrachloroethane		10	U	ug/l	10	10	U	ug/l	10
Chlorobenzene		10	U	ug/l	10	10	U	ug/l	10
Ethylbenzene		10	U	ug/l	10	10	U	ug/l	10
Styrene		10	U	ug/l	10	10	U	ug/l	10
Xylenes (total)		10	U	ug/l	10	10	U	ug/l	10

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE WATER -- SEMIVOLATILES -- REPORT NO. 9627

Lab Sample Number:		C842K				C4W8T				C4V9K				C842P		
Site		PSC6				CECILBRAC2				CECILBRAC2				PSC6		
Locator		CF6SW1				57W00201				57W00301				CF6SW4		
Collect Date:		11-FEB-97				18-JUL-96				17-JUL-96				11-FEB-97		
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW	ug/l																
Phenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
bis(2-Chloroethyl) ether		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Chlorophenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,3-Dichlorobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,4-Dichlorobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,2-Dichlorobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Methylphenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,2-oxybis(1-Chloropropane)		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Methylphenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
N-Nitroso-di-n-propylamine		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Hexachloroethane		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Nitrobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Isophorone		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Nitrophenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4-Dimethylphenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
bis(2-Chloroethoxy) methane		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4-Dichlorophenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
1,2,4-Trichlorobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Naphthalene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Chloroaniline		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Hexachlorobutadiene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Chloro-3-methylphenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Methylnaphthalene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Hexachlorocyclopentadiene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4,6-Trichlorophenol		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4,5-Trichlorophenol		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
2-Chloronaphthalene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2-Nitroaniline		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
Dimethylphthalate		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Acenaphthylene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,6-Dinitrotoluene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
3-Nitroaniline		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
Acenaphthene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4-Dinitrophenol		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
4-Nitrophenol		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
Dibenzofuran		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
2,4-Dinitrotoluene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Diethylphthalate		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Chlorophenyl-phenylether		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Fluorene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Nitroaniline		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
4,6-Dinitro-2-methylphenol		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
N-Nitrosodiphenylamine		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
4-Bromophenyl-phenylether		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Hexachlorobenzene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Pentachlorophenol		25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25	25	U	ug/l	25
Phenanthrene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Anthracene		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Carbazole		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Di-n-butylphthalate		10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE WATER -- SEMIVOLATILES -- REPORT NO. 9627

Lab Sample Number:	C842K				C4W8T				C4V9K				C842P			
Site	PSC6				CECILBRAC2				CECILBRAC2				PSC6			
Locator	CF6SW1				57W00201				57W00301				CF6SW4			
Collect Date:	11-FEB-97				18-JUL-96				17-JUL-96				11-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Butylbenzylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
3,3-Dichlorobenzidine	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (a) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Chrysene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Di-n-octylphthalate	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (b) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (k) fluoranthene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (a) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Dibenzo (a,h) anthracene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10
Benzo (g,h,i) perylene	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10	10	U	ug/l	10

U = NOT DETECTED J = ESTIMATED VALUE
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R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE WATER -- SEMIVOLATILES -- REPORT NO. 9627

Lab Sample Number:		C842Q				C84CR			
Site		PSC6				PSC6			
Locator		CF6SW5				CF6SW6			
Collect Date:		11-FEB-97				12-FEB-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW	ug/l								
Phenol		10	U	ug/l	10	10	U	ug/l	10
bis(2-Chloroethyl) ether		10	U	ug/l	10	10	U	ug/l	10
2-Chlorophenol		10	U	ug/l	10	10	U	ug/l	10
1,3-Dichlorobenzene		10	U	ug/l	10	10	U	ug/l	10
1,4-Dichlorobenzene		10	U	ug/l	10	10	U	ug/l	10
1,2-Dichlorobenzene		10	U	ug/l	10	10	U	ug/l	10
2-Methylphenol		10	U	ug/l	10	10	U	ug/l	10
2,2-oxybis(1-Chloropropane)		10	U	ug/l	10	10	U	ug/l	10
4-Methylphenol		10	U	ug/l	10	10	U	ug/l	10
N-Nitroso-di-n-propylamine		10	U	ug/l	10	10	U	ug/l	10
Hexachloroethane		10	U	ug/l	10	10	U	ug/l	10
Nitrobenzene		10	U	ug/l	10	10	U	ug/l	10
Isophorone		10	U	ug/l	10	10	U	ug/l	10
2-Nitrophenol		10	U	ug/l	10	10	U	ug/l	10
2,4-Dimethylphenol		10	U	ug/l	10	10	U	ug/l	10
bis(2-Chloroethoxy) methane		10	U	ug/l	10	10	U	ug/l	10
2,4-Dichlorophenol		10	U	ug/l	10	10	U	ug/l	10
1,2,4-Trichlorobenzene		10	U	ug/l	10	10	U	ug/l	10
Naphthalene		10	U	ug/l	10	10	U	ug/l	10
4-Chloroaniline		10	U	ug/l	10	10	U	ug/l	10
Hexachlorobutadiene		10	U	ug/l	10	10	U	ug/l	10
4-Chloro-3-methylphenol		10	U	ug/l	10	10	U	ug/l	10
2-Methylnaphthalene		10	U	ug/l	10	10	U	ug/l	10
Hexachlorocyclopentadiene		10	U	ug/l	10	10	U	ug/l	10
2,4,6-Trichlorophenol		10	U	ug/l	10	10	U	ug/l	10
2,4,5-Trichlorophenol		25	U	ug/l	25	25	U	ug/l	25
2-Chloronaphthalene		10	U	ug/l	10	10	U	ug/l	10
2-Nitroaniline		25	U	ug/l	25	25	U	ug/l	25
Dimethylphthalate		10	U	ug/l	10	10	U	ug/l	10
Acenaphthylene		10	U	ug/l	10	10	U	ug/l	10
2,6-Dinitrotoluene		10	U	ug/l	10	10	U	ug/l	10
3-Nitroaniline		25	U	ug/l	25	25	U	ug/l	25
Acenaphthene		10	U	ug/l	10	10	U	ug/l	10
2,4-Dinitrophenol		25	U	ug/l	25	25	U	ug/l	25
4-Nitrophenol		25	U	ug/l	25	25	U	ug/l	25
Dibenzofuran		10	U	ug/l	10	10	U	ug/l	10
2,4-Dinitrotoluene		10	U	ug/l	10	10	U	ug/l	10
Diethylphthalate		10	U	ug/l	10	10	U	ug/l	10
4-Chlorophenyl-phenylether		10	U	ug/l	10	10	U	ug/l	10
Fluorene		10	U	ug/l	10	10	U	ug/l	10

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE WATER -- SEMIVOLATILES -- REPORT NO. 9627

Lab Sample Number:	C842Q				C84CR			
Site	~~PSC6~~				~~PSC6~~			
Locator	CF6SW5				CF6SW6			
Collect Date:	11-FEB-97				12-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
4-Nitroaniline	25	U	ug/l	25	25	U	ug/l	25
4,6-Dinitro-2-methylphenol	25	U	ug/l	25	25	U	ug/l	25
N-Nitrosodiphenylamine	10	U	ug/l	10	10	U	ug/l	10
4-Bromophenyl-phenylether	10	U	ug/l	10	10	U	ug/l	10
Hexachlorobenzene	10	U	ug/l	10	10	U	ug/l	10
Pentachlorophenol	25	U	ug/l	25	25	U	ug/l	25
Phenanthrene	10	U	ug/l	10	10	U	ug/l	10
Anthracene	10	U	ug/l	10	10	U	ug/l	10
Carbazole	10	U	ug/l	10	10	U	ug/l	10
Di-n-butylphthalate	10	U	ug/l	10	10	U	ug/l	10
Fluoranthene	10	U	ug/l	10	10	U	ug/l	10
Pyrene	10	U	ug/l	10	10	U	ug/l	10
Butylbenzylphthalate	10	U	ug/l	10	10	U	ug/l	10
3,3-Dichlorobenzidine	10	U	ug/l	10	10	U	ug/l	10
Benzo (a) anthracene	10	U	ug/l	10	10	U	ug/l	10
Chrysene	10	U	ug/l	10	10	U	ug/l	10
bis(2-Ethylhexyl) phthalate	1	J	ug/l	10	10	U	ug/l	10
Di-n-octylphthalate	10	U	ug/l	10	10	U	ug/l	10
Benzo (b) fluoranthene	10	U	ug/l	10	10	U	ug/l	10
Benzo (k) fluoranthene	10	U	ug/l	10	10	U	ug/l	10
Benzo (a) pyrene	10	U	ug/l	10	10	U	ug/l	10
Indeno (1,2,3-cd) pyrene	10	U	ug/l	10	10	U	ug/l	10
Dibenzo (a,h) anthracene	10	U	ug/l	10	10	U	ug/l	10
Benzo (g,h,i) perylene	10	U	ug/l	10	10	U	ug/l	10

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UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE WATER -- PESTICIDES AND PCBs -- REPORT NO. 9628

Lab Sample Number:	C842K				C4W8T				C4V9K				C842P			
Site	~~PSC6~~				~~SECILBRAC2~~				~~CECILBRAC2~~				~~PSC6~~			
Locator	CF6SW1				57W00201				57W00301				CF6SW4			
Collect Date:	11-FEB-97				18-JUL-96				17-JUL-96				11-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW ug/l																
alpha-BHC	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
beta-BHC	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
delta-BHC	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
gamma-BHC (Lindane)	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Heptachlor	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Aldrin	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Heptachlor epoxide	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Endosulfan I	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Dieldrin	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDE	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Endrin	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Endosulfan II	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDD	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Endosulfan sulfate	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDT	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Methoxychlor	.5	U	ug/l	.5	.5	U	ug/l	.5	.5	U	ug/l	.5	.5	U	ug/l	.5
Endrin ketone	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Endrin aldehyde	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
alpha-Chlordane	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
gamma-Chlordane	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Toxaphene	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5	5	U	ug/l	5
Aroclor-1016	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1221	2	U	ug/l	2	2	U	ug/l	2	2	U	ug/l	2	2	U	ug/l	2
Aroclor-1232	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1242	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1248	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1254	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1260	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1

U = NOT DETECTED J = ESTIMATED VALUE
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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE WATER -- PESTICIDES AND PCBs -- REPORT NO. 9628

Lab Sample Number:	C8420				C84C8			
Site	PSC6				PSC6			
Locator	CF6SW5				CF6SW6			
Collect Date:	11-FEB-97				12-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW ug/l								
alpha-BHC	.05	U	ug/l	.05	.05	U	ug/l	.05
beta-BHC	.05	U	ug/l	.05	.05	U	ug/l	.05
delta-BHC	.05	U	ug/l	.05	.05	U	ug/l	.05
gamma-BHC (Lindane)	.05	U	ug/l	.05	.05	U	ug/l	.05
Heptachlor	.05	U	ug/l	.05	.05	U	ug/l	.05
Aldrin	.05	U	ug/l	.05	.05	U	ug/l	.05
Heptachlor epoxide	.05	U	ug/l	.05	.05	U	ug/l	.05
Endosulfan I	.05	U	ug/l	.05	.05	U	ug/l	.05
Dieldrin	.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDE	.1	U	ug/l	.1	.1	U	ug/l	.1
Endrin	.1	U	ug/l	.1	.1	U	ug/l	.1
Endosulfan II	.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDD	.1	U	ug/l	.1	.1	U	ug/l	.1
Endosulfan sulfate	.1	U	ug/l	.1	.1	U	ug/l	.1
4,4-DDT	.1	U	ug/l	.1	.1	U	ug/l	.1
Methoxychlor	.5	U	ug/l	.5	.5	U	ug/l	.5
Endrin ketone	.1	U	ug/l	.1	.1	U	ug/l	.1
Endrin aldehyde	.1	U	ug/l	.1	.1	U	ug/l	.1
alpha-Chlordane	.05	U	ug/l	.05	.05	U	ug/l	.05
gamma-Chlordane	.05	U	ug/l	.05	.05	U	ug/l	.05
Toxaphene	5	U	ug/l	5	5	U	ug/l	5
Aroclor-1016	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1221	2	U	ug/l	2	2	U	ug/l	2
Aroclor-1232	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1242	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1248	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1254	1	U	ug/l	1	1	U	ug/l	1
Aroclor-1260	1	U	ug/l	1	1	U	ug/l	1

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE WATER -- INORGANICS -- REPORT NO. 9629

Lab Sample Number:	C842K				C4W8T				C4V9K				C842P			
Site	PSC6				CECILBRAC2				CECILBRAC2				PSC6			
Locator	CF6SW1				57W00201				57W00301				CF6SW4			
Collect Date:	11-FEB-97				18-JUL-96				17-JUL-96				11-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE ug/l																
Aluminum	157	J	ug/l	200	184	J	ug/l	200	186	J	ug/l	200	286		ug/l	200
Antimony	3	U	ug/l	60	2	U	ug/l	60	2	U	ug/l	60	3	U	ug/l	60
Arsenic	2	U	ug/l	10	3	U	ug/l	10	3	U	ug/l	10	2	U	ug/l	10
Barium	22.8	J	ug/l	200	25.6	J	ug/l	200	25.1	J	ug/l	200	20.7	J	ug/l	200
Beryllium	1	U	ug/l	5	1	U	ug/l	5	1	U	ug/l	5	1	U	ug/l	5
Cadmium	1	U	ug/l	5	1	U	ug/l	5	1	U	ug/l	5	1	U	ug/l	5
Calcium	16400		ug/l	5000	24800		ug/l	5000	25700		ug/l	5000	10100		ug/l	5000
Chromium	1	U	ug/l	10	2	U	ug/l	10	2	U	ug/l	10	1	U	ug/l	10
Cobalt	1	U	ug/l	50	1	U	ug/l	50	1	U	ug/l	50	1	U	ug/l	50
Copper	1	U	ug/l	25	3	J	ug/l	25	3.3	J	ug/l	25	2.3	J	ug/l	25
Iron	394		ug/l	100	976		ug/l	100	1330		ug/l	100	651		ug/l	100
Lead	1	U	ug/l	3	2	U	ug/l	3	2	U	ug/l	3	1.6	J	ug/l	3
Magnesium	1930	J	ug/l	5000	2680	J	ug/l	5000	2610	J	ug/l	5000	1810	J	ug/l	5000
Manganese	12.1	J	ug/l	15	34		ug/l	15	28.4		ug/l	15	18.7		ug/l	15
Mercury	.1	U	ug/l	.2	.1	U	ug/l	.2	.1	U	ug/l	.2	.1	U	ug/l	.2
Nickel	2	U	ug/l	40	2.5	J	ug/l	40	2	U	ug/l	40	2	U	ug/l	40
Potassium	741	J	ug/l	5000	785	J	ug/l	5000	644	J	ug/l	5000	652	J	ug/l	5000
Selenium	4	U	ug/l	5	4	U	ug/l	5	4	U	ug/l	5	4.7	J	ug/l	5
Silver	1	U	ug/l	10	1	U	ug/l	10	1	U	ug/l	10	1	U	ug/l	10
Sodium	4870	J	ug/l	5000	5310	J	ug/l	5000	4510	J	ug/l	5000	7250		ug/l	5000
Thallium	4.8	J	ug/l	10	3	J	ug/l	10	2	U	ug/l	10	4.7	J	ug/l	10
Vanadium	1.6	J	ug/l	50	1.9	J	ug/l	50	1	U	ug/l	50	1	J	ug/l	50
Zinc	21.7		ug/l	20	38.4		ug/l	20	44.3		ug/l	20	27.8		ug/l	20
Cyanide	1.2	U	ug/l	10	3	U	ug/l	10	3	U	ug/l	10	1.2	U	ug/l	10

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SURFACE WATER -- INORGANICS -- REPORT NO. 9629

Lab Sample Number:	C842Q				C84CP			
Site	PSC6				PSC6			
Locator	CF6SW5				CF6SW6			
Collect Date:	11-FEB-97				12-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE ug/l								
Aluminum	155	J	ug/l	200	73.3	J	ug/l	200
Antimony	3	U	ug/l	60	3	U	ug/l	60
Arsenic	2	U	ug/l	10	2	U	ug/l	10
Barium	19.4	J	ug/l	200	21.7	J	ug/l	200
Beryllium	1	U	ug/l	5	1	U	ug/l	5
Cadmium	1	U	ug/l	5	1	U	ug/l	5
Calcium	9700		ug/l	5000	24000		ug/l	5000
Chromium	1	U	ug/l	10	1	U	ug/l	10
Cobalt	1	U	ug/l	50	1	U	ug/l	50
Copper	2.3	J	ug/l	25	1	U	ug/l	25
Iron	389		ug/l	100	1070		ug/l	100
Lead	1	U	ug/l	3	1.3	J	ug/l	3
Magnesium	1790	J	ug/l	5000	1490	J	ug/l	5000
Manganese	12.9	J	ug/l	15	21.2		ug/l	15
Mercury	.1	U	ug/l	.2	.1	U	ug/l	.2
Nickel	2	U	ug/l	40	2	U	ug/l	40
Potassium	659	J	ug/l	5000	778	J	ug/l	5000
Selenium	4	U	ug/l	5	4	U	ug/l	5
Silver	1	U	ug/l	10	1	U	ug/l	10
Sodium	7010		ug/l	5000	4640	J	ug/l	5000
Thallium	4.4	J	ug/l	10	3.7	J	ug/l	10
Vanadium	1	U	ug/l	50	2.6	J	ug/l	50
Zinc	18.5	J	ug/l	20	8	J	ug/l	20
Cyanide	1.2	U	ug/l	10	1.2	U	ug/l	10

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SEDIMENT -- VOLATILES -- REPORT NO. 9630

Lab Sample Number:	C842T				C4W95				C4V9N				C8430			
Site	PSC6				CECILBRAC2				CECILBRAC2				PSC6			
Locator	CF6SD1				57D00201				57D00301				CF6SD4			
Collect Date:	11-FEB-97				18-JUL-96				17-JUL-96				11-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW ug/kg																
Chloromethane	15	U	ug/kg	15	13	U	ug/kg	13	15	U	ug/kg	15	15	U	ug/kg	15
Bromomethane	15	U	ug/kg	15	13	U	ug/kg	13	15	U	ug/kg	15	15	U	ug/kg	15
Vinyl chloride	15	U	ug/kg	15	13	U	ug/kg	13	15	U	ug/kg	15	15	U	ug/kg	15
Chloroethane	15	U	ug/kg	15	13	U	ug/kg	13	15	U	ug/kg	15	15	U	ug/kg	15
Methylene chloride	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Acetone	15	U	ug/kg	15	13	U	ug/kg	13	15	U	ug/kg	15	15	U	ug/kg	15
Carbon disulfide	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
1,1-Dichloroethene	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
1,1-Dichloroethane	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
1,2-Dichloroethene (total)	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Chloroform	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
1,2-Dichloroethane	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
2-Butanone	15	U	ug/kg	15	13	U	ug/kg	13	3	J	ug/kg	15	15	U	ug/kg	15
1,1,1-Trichloroethane	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Carbon tetrachloride	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Bromodichloromethane	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
1,2-Dichloropropane	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
cis-1,3-Dichloropropene	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Trichloroethene	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Dibromochloromethane	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
1,1,2-Trichloroethane	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Benzene	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
trans-1,3-Dichloropropene	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Bromoform	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
4-Methyl-2-pentanone	15	U	ug/kg	15	13	U	ug/kg	13	15	U	ug/kg	15	15	U	ug/kg	15
2-Hexanone	15	U	ug/kg	15	13	U	ug/kg	13	15	U	ug/kg	15	15	U	ug/kg	15
Tetrachloroethene	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Toluene	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
1,1,2,2-Tetrachloroethane	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Chlorobenzene	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Ethylbenzene	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Styrene	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15
Xylenes (total)	15	U	ug/kg	15	7	U	ug/kg	7	7	U	ug/kg	7	15	U	ug/kg	15

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NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SEDIMENT -- VOLATILES -- REPORT NO. 9630

Lab Sample Number:		C8431			C8431RE			C84CX			C84CXRE		
Site		PSC6			PSC6			PSC6			PSC6		
Locator		CF6SD5			CF6SD5RE			CF6SD6			CF6SD6RE		
Collect Date:		11-FEB-97			11-FEB-97			12-FEB-97			12-FEB-97		
		VALUE QUAL	UNITS	DL	VALUE QUAL	UNITS	DL	VALUE QUAL	UNITS	DL	VALUE QUAL	UNITS	DL
CLP VOLATILES 90-SOW	ug/kg												
Chloromethane		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Bromomethane		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Vinyl chloride		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Chloroethane		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Methylene chloride		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Acetone		32	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Carbon disulfide		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
1,1-Dichloroethene		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
1,1-Dichloroethane		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
1,2-Dichloroethene (total)		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Chloroform		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
1,2-Dichloroethane		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
2-Butanone		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
1,1,1-Trichloroethane		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Carbon tetrachloride		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Bromodichloromethane		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
1,2-Dichloropropane		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
cis-1,3-Dichloropropene		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Trichloroethene		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Dibromochloromethane		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
1,1,2-Trichloroethane		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Benzene		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
trans-1,3-Dichloropropene		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Bromoform		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
4-Methyl-2-pentanone		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
2-Hexanone		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Tetrachloroethene		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Toluene		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
1,1,2,2-Tetrachloroethane		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Chlorobenzene		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Ethylbenzene		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Styrene		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23
Xylenes (total)		15 U	ug/kg	15	15 U	ug/kg	15	23 U	ug/kg	23	23 U	ug/kg	23

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SEDIMENT -- SEMIVOLATILES -- REPORT NO. 9631

Lab Sample Number:		C8427				C4W95				C4V9N				C8430		
Site		PSC6				CECILBRAC2				CECILBRAC2				PSC6		
Locator		CF6SD1				57D00201				57D00301				CF6SD4		
Collect Date:		11-FEB-97				18-JUL-96				17-JUL-96				11-FEB-97		
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW	ug/kg																
Phenol		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
bis(2-Chloroethyl) ether		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2-Chlorophenol		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
1,3-Dichlorobenzene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
1,4-Dichlorobenzene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
1,2-Dichlorobenzene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2-Methylphenol		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2,2-oxybis(1-Chloropropane)		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
4-Methylphenol		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
N-Nitroso-di-n-propylamine		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Hexachloroethane		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Nitrobenzene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Isophorone		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2-Nitrophenol		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2,4-Dimethylphenol		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
bis(2-Chloroethoxy) methane		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2,4-Dichlorophenol		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
1,2,4-Trichlorobenzene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Naphthalene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
4-Chloroaniline		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Hexachlorobutadiene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
4-Chloro-3-methylphenol		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2-Methylnaphthalene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Hexachlorocyclopentadiene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2,4,6-Trichlorophenol		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2,4,5-Trichlorophenol		1200	U	ug/kg	1200	1100	U	ug/kg	1100	4800	U	ug/kg	4800	1200	U	ug/kg	1200
2-Chloronaphthalene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2-Nitroaniline		1200	U	ug/kg	1200	1100	U	ug/kg	1100	4800	U	ug/kg	4800	1200	U	ug/kg	1200
Dimethylphthalate		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Acenaphthylene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2,6-Dinitrotoluene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
3-Nitroaniline		1200	U	ug/kg	1200	1100	U	ug/kg	1100	4800	U	ug/kg	4800	1200	U	ug/kg	1200
Acenaphthene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2,4-Dinitrophenol		1200	U	ug/kg	1200	1100	U	ug/kg	1100	4800	U	ug/kg	4800	1200	U	ug/kg	1200
4-Nitrophenol		1200	U	ug/kg	1200	1100	U	ug/kg	1100	4800	U	ug/kg	4800	1200	U	ug/kg	1200
Dibenzofuran		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
2,4-Dinitrotoluene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Diethylphthalate		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
4-Chlorophenyl-phenylether		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Fluorene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
4-Nitroaniline		1200	U	ug/kg	1200	1100	U	ug/kg	1100	4800	U	ug/kg	4800	1200	U	ug/kg	1200
4,6-Dinitro-2-methylphenol		1200	U	ug/kg	1200	1100	U	ug/kg	1100	4800	U	ug/kg	4800	1200	U	ug/kg	1200
N-Nitrosodiphenylamine		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
4-Bromophenyl-phenylether		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Hexachlorobenzene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Pentachlorophenol		1200	U	ug/kg	1200	1100	U	ug/kg	1100	4800	U	ug/kg	4800	1200	U	ug/kg	1200
Phenanthrene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Anthracene		510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Carbazole		510	U	ug/kg	510	440	U	ug/kg	440	300	J	ug/kg	2000	490	U	ug/kg	490
Di-n-butylphthalate		510	U	ug/kg	510	440	U	ug/kg	440	2300		ug/kg	2000	490	U	ug/kg	490

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SEDIMENT -- SEMIVOLATILES -- REPORT NO. 9631

Lab Sample Number:	C842T				C4W95				C4V9N				C843D			
Site	PSC6				~~SECILBRAC2~~				~~SECILBRAC2~~				PSC6			
Locator	CF6SD1				57D00201				57D00301				CF6SD4			
Collect Date:	11-FEB-97				18-JUL-96				17-JUL-96				11-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluoranthene	510	U	ug/kg	510	440	U	ug/kg	440	6200		ug/kg	2000	490	U	ug/kg	490
Pyrene	510	U	ug/kg	510	440	U	ug/kg	440	3800		ug/kg	2000	490	U	ug/kg	490
Butylbenzylphthalate	510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
3,3-Dichlorobenzidine	510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Benzo (a) anthracene	510	U	ug/kg	510	440	U	ug/kg	440	1900	J	ug/kg	2000	490	U	ug/kg	490
Chrysene	510	U	ug/kg	510	440	U	ug/kg	440	3300		ug/kg	2000	490	U	ug/kg	490
bis(2-Ethylhexyl) phthalate	510	U	ug/kg	510	140	J	ug/kg	430	2900		ug/kg	2000	490	U	ug/kg	490
Di-n-octylphthalate	510	U	ug/kg	510	440	U	ug/kg	440	2000	U	ug/kg	2000	490	U	ug/kg	490
Benzo (b) fluoranthene	510	U	ug/kg	510	440	U	ug/kg	440	4300		ug/kg	2000	490	U	ug/kg	490
Benzo (k) fluoranthene	510	U	ug/kg	510	440	U	ug/kg	440	1400	J	ug/kg	2000	490	U	ug/kg	490
Benzo (a) pyrene	510	U	ug/kg	510	440	U	ug/kg	440	2400		ug/kg	2000	490	U	ug/kg	490
Indeno (1,2,3-cd) pyrene	510	U	ug/kg	510	440	U	ug/kg	440	1500	J	ug/kg	2000	490	U	ug/kg	490
Dibenzo (a,h) anthracene	510	U	ug/kg	510	440	U	ug/kg	440	350	J	ug/kg	2000	490	U	ug/kg	490
Benzo (g,h,i) perylene	510	U	ug/kg	510	440	U	ug/kg	440	1700	J	ug/kg	2000	490	U	ug/kg	490

U = NOT DETECTED J = ESTIMATED VALUE
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R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SEDIMENT -- SEMIVOLATILES -- REPORT NO. 9631

Lab Sample Number:		C8431				C84CX			
Site		PSC6				PSC6			
Locator		CF6SD5				CF6SD6			
Collect Date:		11-FEB-97				12-FEB-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW	ug/kg								
Phenol		490	U	ug/kg	490	760	U	ug/kg	760
bis(2-Chloroethyl) ether		490	U	ug/kg	490	760	U	ug/kg	760
2-Chlorophenol		490	U	ug/kg	490	760	U	ug/kg	760
1,3-Dichlorobenzene		490	U	ug/kg	490	760	U	ug/kg	760
1,4-Dichlorobenzene		490	U	ug/kg	490	760	U	ug/kg	760
1,2-Dichlorobenzene		490	U	ug/kg	490	760	U	ug/kg	760
2-Methylphenol		490	U	ug/kg	490	760	U	ug/kg	760
2,2-oxybis(1-Chloropropane)		490	U	ug/kg	490	760	U	ug/kg	760
4-Methylphenol		490	U	ug/kg	490	760	U	ug/kg	760
N-Nitroso-di-n-propylamine		490	U	ug/kg	490	760	U	ug/kg	760
Hexachloroethane		490	U	ug/kg	490	760	U	ug/kg	760
Nitrobenzene		490	U	ug/kg	490	760	U	ug/kg	760
Isophorone		490	U	ug/kg	490	760	U	ug/kg	760
2-Nitrophenol		490	U	ug/kg	490	760	U	ug/kg	760
2,4-Dimethylphenol		490	U	ug/kg	490	760	U	ug/kg	760
bis(2-Chloroethoxy) methane		490	U	ug/kg	490	760	U	ug/kg	760
2,4-Dichlorophenol		490	U	ug/kg	490	760	U	ug/kg	760
1,2,4-Trichlorobenzene		490	U	ug/kg	490	760	U	ug/kg	760
Naphthalene		490	U	ug/kg	490	760	U	ug/kg	760
4-Chloroaniline		490	U	ug/kg	490	760	U	ug/kg	760
Hexachlorobutadiene		490	U	ug/kg	490	760	U	ug/kg	760
4-Chloro-3-methylphenol		490	U	ug/kg	490	760	U	ug/kg	760
2-Methylnaphthalene		490	U	ug/kg	490	760	U	ug/kg	760
Hexachlorocyclopentadiene		490	U	ug/kg	490	760	U	ug/kg	760
2,4,6-Trichlorophenol		490	U	ug/kg	490	760	U	ug/kg	760
2,4,5-Trichlorophenol		1200	U	ug/kg	1200	1800	U	ug/kg	1800
2-Chloronaphthalene		490	U	ug/kg	490	760	U	ug/kg	760
2-Nitroaniline		1200	U	ug/kg	1200	1800	U	ug/kg	1800
Dimethylphthalate		490	U	ug/kg	490	760	U	ug/kg	760
Acenaphthylene		490	U	ug/kg	490	760	U	ug/kg	760
2,6-Dinitrotoluene		490	U	ug/kg	490	760	U	ug/kg	760
3-Nitroaniline		1200	U	ug/kg	1200	1800	U	ug/kg	1800
Acenaphthene		490	U	ug/kg	490	760	U	ug/kg	760
2,4-Dinitrophenol		1200	U	ug/kg	1200	1800	U	ug/kg	1800
4-Nitrophenol		1200	U	ug/kg	1200	1800	U	ug/kg	1800
Dibenzofuran		490	U	ug/kg	490	760	U	ug/kg	760
2,4-Dinitrotoluene		490	U	ug/kg	490	760	U	ug/kg	760
Diethylphthalate		490	U	ug/kg	490	760	U	ug/kg	760
4-Chlorophenyl-phenylether		490	U	ug/kg	490	760	U	ug/kg	760
Fluorene		490	U	ug/kg	490	760	U	ug/kg	760

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SEDIMENT -- SEMIVOLATILES -- REPORT NO. 9631

Lab Sample Number:	C8431				C84CX			
Site	PSC6				PSC6			
Locator	CF6SD5				CF6SD6			
Collect Date:	11-FEB-97				12-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
4-Nitroaniline	1200	U	ug/kg	1200	1800	U	ug/kg	1800
4,6-Dinitro-2-methylphenol	1200	U	ug/kg	1200	1800	U	ug/kg	1800
N-Nitrosodiphenylamine	490	U	ug/kg	490	760	U	ug/kg	760
4-Bromophenyl-phenylether	490	U	ug/kg	490	760	U	ug/kg	760
Hexachlorobenzene	490	U	ug/kg	490	760	U	ug/kg	760
Pentachlorophenol	1200	U	ug/kg	1200	1800	U	ug/kg	1800
Phenanthrene	490	U	ug/kg	490	760	U	ug/kg	760
Anthracene	490	U	ug/kg	490	760	U	ug/kg	760
Carbazole	490	U	ug/kg	490	760	U	ug/kg	760
Di-n-butylphthalate	490	U	ug/kg	490	760	U	ug/kg	760
Fluoranthene	490	U	ug/kg	490	160	J	ug/kg	750
Pyrene	490	U	ug/kg	490	230	J	ug/kg	750
Butylbenzylphthalate	490	U	ug/kg	490	760	U	ug/kg	760
3,3-Dichlorobenzidine	490	U	ug/kg	490	760	U	ug/kg	760
Benzo (a) anthracene	490	U	ug/kg	490	120	J	ug/kg	750
Chrysene	490	U	ug/kg	490	140	J	ug/kg	750
bis(2-Ethylhexyl) phthalate	490	U	ug/kg	490	760	U	ug/kg	760
Di-n-octylphthalate	490	U	ug/kg	490	760	U	ug/kg	760
Benzo (b) fluoranthene	490	U	ug/kg	490	200	J	ug/kg	750
Benzo (k) fluoranthene	490	U	ug/kg	490	76	J	ug/kg	750
Benzo (a) pyrene	490	U	ug/kg	490	140	J	ug/kg	750
Indeno (1,2,3-cd) pyrene	490	U	ug/kg	490	120	J	ug/kg	750
Dibenzo (a,h) anthracene	490	U	ug/kg	490	760	U	ug/kg	760
Benzo (g,h,i) perylene	490	U	ug/kg	490	110	J	ug/kg	750

U = NOT DETECTED J = ESTIMATED VALUE
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R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SEDIMENT -- PAHs -- REPORT NO. 9632

Lab Sample Number:	CEK48				CEK49				CEK47			
Site	PSC6				PSC6				PSC6			
Locator	CF6SD6A				CF6SD6B				CF6SD6C			
Collect Date:	11-DEC-97				11-DEC-97				11-DEC-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
PAHs ug/kg												
Acenaphthene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Acenaphthylene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Anthracene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Benzo (a) anthracene	110	J	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Benzo (b) fluoranthene	170	J	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Benzo (k) fluoranthene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Benzo (a) pyrene	120	J	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Chrysene	150	J	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Dibenzo (a,h) anthracene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Fluoranthene	170	J	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Fluorene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Indeno (1,2,3-cd) pyrene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Benzo (g,h,i) perylene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
1-Methylnaphthalene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
2-Methylnaphthalene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Naphthalene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Phenanthrene	920	U	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420
Pyrene	180	J	ug/kg	920	1800	U	ug/kg	1800	420	U	ug/kg	420

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SEDIMENT -- PESTICIDES AND PCBs -- REPORT NO. 9633

Lab Sample Number:	C8427				C4W95				C4V9N				C8430			
Site	PSC6				~~CECIL~~BRAC2				~~CECIL~~BRAC2				PSC6			
Locator	CF6SD1				57D00201				57D00301				CF6SD4			
Collect Date:	11-FEB-97				18-JUL-96				17-JUL-96				11-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW ug/kg																
alpha-BHC	2.6	U	ug/kg	2.6	2.2	U	ug/kg	2.2	12	U	ug/kg	12	2.5	U	ug/kg	2.5
beta-BHC	2.6	U	ug/kg	2.6	2.2	U	ug/kg	2.2	12	U	ug/kg	12	2.5	U	ug/kg	2.5
delta-BHC	2.6	U	ug/kg	2.6	2.2	U	ug/kg	2.2	12	U	ug/kg	12	2.5	U	ug/kg	2.5
gamma-BHC (Lindane)	2.6	U	ug/kg	2.6	2.2	U	ug/kg	2.2	12	U	ug/kg	12	2.5	U	ug/kg	2.5
Heptachlor	2.6	U	ug/kg	2.6	2.2	U	ug/kg	2.2	12	U	ug/kg	12	2.5	U	ug/kg	2.5
Aldrin	2.6	U	ug/kg	2.6	2.2	U	ug/kg	2.2	12	U	ug/kg	12	2.5	U	ug/kg	2.5
Heptachlor epoxide	2.6	U	ug/kg	2.6	2.2	U	ug/kg	2.2	12	U	ug/kg	12	2.5	U	ug/kg	2.5
Endosulfan I	2.6	U	ug/kg	2.6	2.2	U	ug/kg	2.2	12	U	ug/kg	12	2.5	U	ug/kg	2.5
Dieldrin	5.1	U	ug/kg	5.1	4.4	U	ug/kg	4.4	25	U	ug/kg	25	5	U	ug/kg	5
4,4-DDE	.34	J	ug/kg	5	4.4	U	ug/kg	4.4	25	U	ug/kg	25	.55	J	ug/kg	5
Endrin	5.1	U	ug/kg	5.1	4.4	U	ug/kg	4.4	25	U	ug/kg	25	5	U	ug/kg	5
Endosulfan II	5.1	U	ug/kg	5.1	4.4	U	ug/kg	4.4	25	U	ug/kg	25	5	U	ug/kg	5
4,4-DDD	5.1	U	ug/kg	5.1	4.4	U	ug/kg	4.4	25	U	ug/kg	25	5	U	ug/kg	5
Endosulfan sulfate	5.1	U	ug/kg	5.1	4.4	U	ug/kg	4.4	25	U	ug/kg	25	5	U	ug/kg	5
4,4-DDT	5.1	U	ug/kg	5.1	4.4	U	ug/kg	4.4	25	U	ug/kg	25	5	U	ug/kg	5
Methoxychlor	26	U	ug/kg	26	2.8	J	ug/kg	22	120	U	ug/kg	120	25	U	ug/kg	25
Endrin ketone	5.1	U	ug/kg	5.1	4.4	U	ug/kg	4.4	25	U	ug/kg	25	5	U	ug/kg	5
Endrin aldehyde	5.1	U	ug/kg	5.1	4.4	U	ug/kg	4.4	25	U	ug/kg	25	5	U	ug/kg	5
alpha-Chlordane	2.6	U	ug/kg	2.6	.5	J	ug/kg	2	1.6	J	ug/kg	12	2.5	U	ug/kg	2.5
gamma-Chlordane	2.6	U	ug/kg	2.6	.32	J	ug/kg	2	12	U	ug/kg	12	2.5	U	ug/kg	2.5
Toxaphene	260	U	ug/kg	260	220	U	ug/kg	220	1200	U	ug/kg	1200	250	U	ug/kg	250
Aroclor-1016	51	U	ug/kg	51	44	U	ug/kg	44	250	U	ug/kg	250	50	U	ug/kg	50
Aroclor-1221	100	U	ug/kg	100	89	U	ug/kg	89	490	U	ug/kg	490	99	U	ug/kg	99
Aroclor-1232	51	U	ug/kg	51	44	U	ug/kg	44	250	U	ug/kg	250	50	U	ug/kg	50
Aroclor-1242	51	U	ug/kg	51	44	U	ug/kg	44	250	U	ug/kg	250	50	U	ug/kg	50
Aroclor-1248	51	U	ug/kg	51	44	U	ug/kg	44	250	U	ug/kg	250	50	U	ug/kg	50
Aroclor-1254	51	U	ug/kg	51	44	U	ug/kg	44	250	U	ug/kg	250	50	U	ug/kg	50
Aroclor-1260	51	U	ug/kg	51	84		ug/kg	43	250	U	ug/kg	250	50	U	ug/kg	50

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SEDIMENT -- PESTICIDES AND PCBs -- REPORT NO. 9633

Lab Sample Number:		C8431				C84CX			
Site		PSC6				PSC6			
Locator		CF6SD5				CF6SD6			
Collect Date:		11-FEB-97				11-FEB-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW	ug/kg								
alpha-BHC		2.5	U	ug/kg	2.5	19	U	ug/kg	19
beta-BHC		2.5	U	ug/kg	2.5	19	U	ug/kg	19
delta-BHC		2.5	U	ug/kg	2.5	19	U	ug/kg	19
gamma-BHC (Lindane)		2.5	U	ug/kg	2.5	19	U	ug/kg	19
Heptachlor		2.5	U	ug/kg	2.5	19	U	ug/kg	19
Aldrin		1.5	J	ug/kg	2	19	U	ug/kg	19
Heptachlor epoxide		2.5	U	ug/kg	2.5	19	U	ug/kg	19
Endosulfan I		2.5	U	ug/kg	2.5	19	U	ug/kg	19
Dieldrin		5	U	ug/kg	5	38	U	ug/kg	38
4,4-DDE		1.5	J	ug/kg	5	180		ug/kg	38
Endrin		2	J	ug/kg	5	38	U	ug/kg	38
Endosulfan II		5	U	ug/kg	5	38	U	ug/kg	38
4,4-DDD		5	U	ug/kg	5	72		ug/kg	38
Endosulfan sulfate		5	U	ug/kg	5	38	U	ug/kg	38
4,4-DDT		5	U	ug/kg	5	24	J	ug/kg	38
Methoxychlor		25	U	ug/kg	25	190	U	ug/kg	190
Endrin ketone		5	U	ug/kg	5	38	U	ug/kg	38
Endrin aldehyde		.64	J	ug/kg	5	38	U	ug/kg	38
alpha-Chlordane		.36	J	ug/kg	2	19	U	ug/kg	19
gamma-Chlordane		.81	J	ug/kg	2	19	U	ug/kg	19
Toxaphene		250	U	ug/kg	250	1900	U	ug/kg	1900
Aroclor-1016		50	U	ug/kg	50	380	U	ug/kg	380
Aroclor-1221		100	U	ug/kg	100	760	U	ug/kg	760
Aroclor-1232		50	U	ug/kg	50	380	U	ug/kg	380
Aroclor-1242		50	U	ug/kg	50	380	U	ug/kg	380
Aroclor-1248		50	U	ug/kg	50	380	U	ug/kg	380
Aroclor-1254		50	U	ug/kg	50	380	U	ug/kg	380
Aroclor-1260		50	U	ug/kg	50	380	U	ug/kg	380

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SEDIMENT -- INORGANICS -- REPORT NO. 9634

Lab Sample Number:	C842T				64W95				C4V9N				C8430			
Site	PSC6				~~CECILBRAC2~~				~~CECILBRAC2~~				~~PSC6~~			
Locator	CF6SD1				57D00201				57D00301				CF6SD4			
Collect Date:	11-FEB-97				18-JUL-96				17-JUL-96				11-FEB-97			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE mg/kg																
Aluminum	2310		mg/kg	40	3100		mg/kg	40	2270		mg/kg	40	780		mg/kg	40
Antimony	.93	U	mg/kg	12	.53	U	mg/kg	12	.59	U	mg/kg	12	.89	U	mg/kg	12
Arsenic	.62	U	mg/kg	2	.8	U	mg/kg	2	.95	J	mg/kg	2	.59	U	mg/kg	2
Barium	5.8	J	mg/kg	40	2.8	J	mg/kg	40	12.4	J	mg/kg	40	5	J	mg/kg	40
Beryllium	.31	U	mg/kg	1	.27	U	mg/kg	1	.3	U	mg/kg	1	.3	U	mg/kg	1
Cadmium	.31	U	mg/kg	1	.27	U	mg/kg	1	2.6		mg/kg	1	.3	U	mg/kg	1
Calcium	965	J	mg/kg	1000	60.5	J	mg/kg	1000	433	J	mg/kg	1000	359	J	mg/kg	1000
Chromium	3.5		mg/kg	2	4.3		mg/kg	2	15.6		mg/kg	2	1.1	J	mg/kg	2
Cobalt	.42	J	mg/kg	10	.48	J	mg/kg	10	.65	J	mg/kg	10	.3	U	mg/kg	10
Copper	1.9	J	mg/kg	5	2	J	mg/kg	5	14.1		mg/kg	5	1.7	J	mg/kg	5
Iron	350		mg/kg	20	417		mg/kg	20	504		mg/kg	20	273		mg/kg	20
Lead	5.8		mg/kg	.6	4.5		mg/kg	.6	50.3		mg/kg	.6	3.5		mg/kg	.6
Magnesium	68.5	J	mg/kg	1000	94	J	mg/kg	1000	94.9	J	mg/kg	1000	46.8	J	mg/kg	1000
Manganese	3.9	J	mg/kg	3	6.5		mg/kg	3	4.6		mg/kg	3	2.6	J	mg/kg	3
Mercury	.08	U	mg/kg	.1	.07	U	mg/kg	.1	.07	U	mg/kg	.1	.07	U	mg/kg	.1
Nickel	.98	J	mg/kg	8	.62	J	mg/kg	8	2.4	J	mg/kg	8	.59	U	mg/kg	8
Potassium	23.4	J	mg/kg	1000	87.6	J	mg/kg	1000	30.8	J	mg/kg	1000	16.2	J	mg/kg	1000
Selenium	2.4		mg/kg	1	1.1	U	mg/kg	1	1.2	U	mg/kg	1	1.2	U	mg/kg	1
Silver	.31	U	mg/kg	2	.27	U	mg/kg	2	.33	J	mg/kg	2	.3	U	mg/kg	2
Sodium	34.3	U	mg/kg	1000	18.9	U	mg/kg	1000	21.1	U	mg/kg	1000	32.9	U	mg/kg	1000
Thallium	.93	U	mg/kg	2	.53	U	mg/kg	2	.59	U	mg/kg	2	.89	U	mg/kg	2
Vanadium	3.1	J	mg/kg	10	3.7	J	mg/kg	10	6.6	J	mg/kg	10	1.3	J	mg/kg	10
Zinc	15.6		mg/kg	4	4	J	mg/kg	4	77.5	J	mg/kg	4	7		mg/kg	4
Cyanide	.09	U	mg/kg	.5	.21	UJ	mg/kg	.5	.21	UJ	mg/kg	.5	.08	U	mg/kg	.5

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- POTENTIAL SOURCE OF CONTAMINATION (PSC) 6
SEDIMENT -- INORGANICS -- REPORT NO. 9634

Lab Sample Number:		C8431				C84CX			
Site		~~PSC6~~				~~PSC6~~			
Locator		CF6SD5				CF6SD6			
Collect Date:		11-FEB-97				12-FEB-97			
		VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE	mg/kg								
Aluminum		2390		mg/kg	40	2960		mg/kg	40
Antimony		.9	U	mg/kg	12	6.6	J	mg/kg	12
Arsenic		.6	J	mg/kg	2	1.3	J	mg/kg	2
Barium		10.3	J	mg/kg	40	48	J	mg/kg	40
Beryllium		.3	U	mg/kg	1	.46	U	mg/kg	1
Cadmium		.3	U	mg/kg	1	.8	J	mg/kg	1
Calcium		1680		mg/kg	1000	5200		mg/kg	1000
Chromium		2.6	J	mg/kg	2	11.1		mg/kg	2
Cobalt		.3	U	mg/kg	10	.78	J	mg/kg	10
Copper		4.6	J	mg/kg	5	21.5		mg/kg	5
Iron		694		mg/kg	20	7700		mg/kg	20
Lead		8.6		mg/kg	.6	200		mg/kg	.6
Magnesium		98.3	J	mg/kg	1000	396	J	mg/kg	1000
Manganese		6.1		mg/kg	3	29.4		mg/kg	3
Mercury		.07	U	mg/kg	.1	.11	U	mg/kg	.1
Nickel		.86	J	mg/kg	8	35.4		mg/kg	8
Potassium		72.1	J	mg/kg	1000	64.9	J	mg/kg	1000
Selenium		1.2	U	mg/kg	1	1.8	U	mg/kg	1
Silver		.3	U	mg/kg	2	.46	U	mg/kg	2
Sodium		33.2	U	mg/kg	1000	50.8	U	mg/kg	1000
Thallium		1.3	J	mg/kg	2	1.4	U	mg/kg	2
Vanadium		3.3	J	mg/kg	10	103		mg/kg	10
Zinc		14.8		mg/kg	4	459		mg/kg	4
Cyanide		.08	U	mg/kg	.5	.24	J	mg/kg	.5

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE

APPENDIX B

LABORATORY ANALYTICAL DATA SHEETS

PHASE I ANALYTICAL DATA

Report of Analysis

Client Sample ID:	CEF-P06-SD-001-01		
Lab Sample ID:	F4091-1	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	72.7
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/15/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	140	ug/kg	
208-96-8	Acenaphthylene	ND	140	ug/kg	
120-12-7	Anthracene	ND	140	ug/kg	
56-55-3	Benzo (a) anthracene	ND	21	ug/kg	
50-32-8	Benzo (a) pyrene	ND	21	ug/kg	
205-99-2	Benzo (b) fluoranthene	264	21	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	21	ug/kg	
207-08-9	Benzo (k) fluoranthene	131	21	ug/kg	
218-01-9	Chrysene	ND	21	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	21	ug/kg	
206-44-0	Fluoranthene	ND	21	ug/kg	
86-73-7	Fluorene	ND	140	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	21	ug/kg	
90-12-0	1-Methylnaphthalene	ND	140	ug/kg	
91-57-6	2-Methylnaphthalene	ND	140	ug/kg	
91-20-3	Naphthalene	ND	140	ug/kg	
85-01-8	Phenanthrene	ND	140	ug/kg	
129-00-0	Pyrene	ND	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	50%		20-130%

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SD-004-01		
Lab Sample ID:	F4091-2	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	28.6
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/15/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	340	ug/kg	
208-96-8	Acenaphthylene	ND	340	ug/kg	
120-12-7	Anthracene	ND	340	ug/kg	
56-55-3	Benzo (a) anthracene	ND	23	ug/kg	
50-32-8	Benzo (a) pyrene	ND	23	ug/kg	
205-99-2	Benzo (b) fluoranthene	135	23	ug/kg	
191-24-2	Benzo (g,h,i) perylene	186	23	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	23	ug/kg	
218-01-9	Chrysene	177	23	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	23	ug/kg	
206-44-0	Fluoranthene	ND	23	ug/kg	
86-73-7	Fluorene	ND	340	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	23	ug/kg	
90-12-0	1-Methylnaphthalene	ND	340	ug/kg	
91-57-6	2-Methylnaphthalene	ND	340	ug/kg	
91-20-3	Naphthalene	ND	340	ug/kg	
85-01-8	Phenanthrene	ND	340	ug/kg	
129-00-0	Pyrene	ND	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	43%		20-130%

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SD-005-01		
Lab Sample ID:	F4091-3	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	70.4
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	140	ug/kg	
208-96-8	Acenaphthylene	ND	140	ug/kg	
120-12-7	Anthracene	ND	140	ug/kg	
56-55-3	Benzo (a) anthracene	ND	21	ug/kg	
50-32-8	Benzo (a) pyrene	ND	21	ug/kg	
205-99-2	Benzo (b) fluoranthene	337	21	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	21	ug/kg	
207-08-9	Benzo (k) fluoranthene	368	21	ug/kg	
218-01-9	Chrysene	908	21	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	21	ug/kg	
206-44-0	Fluoranthene	ND	21	ug/kg	
86-73-7	Fluorene	ND	140	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	21	ug/kg	
90-12-0	1-Methylnaphthalene	ND	140	ug/kg	
91-57-6	2-Methylnaphthalene	ND	140	ug/kg	
91-20-3	Naphthalene	ND	140	ug/kg	
85-01-8	Phenanthrene	ND	140	ug/kg	
129-00-0	Pyrene	ND	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	51%		20-130%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SD-006-01		
Lab Sample ID:	F4091-4	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	10.6
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	140	ug/kg	
208-96-8	Acenaphthylene	ND	140	ug/kg	
120-12-7	Anthracene	ND	140	ug/kg	
56-55-3	Benzo (a) anthracene	223	140	ug/kg	
50-32-8	Benzo (a) pyrene	150	140	ug/kg	
205-99-2	Benzo (b) fluoranthene	3180	140	ug/kg	
191-24-2	Benzo (g,h,i) perylene	19000	140	ug/kg	
207-08-9	Benzo (k) fluoranthene	3700	140	ug/kg	
218-01-9	Chrysene	299	140	ug/kg	
53-70-3	Dibenz(a,h)anthracene	288	140	ug/kg	
206-44-0	Fluoranthene	ND	140	ug/kg	
86-73-7	Fluorene	ND	140	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	140	ug/kg	
90-12-0	1-Methylnaphthalene	ND	140	ug/kg	
91-57-6	2-Methylnaphthalene	ND	140	ug/kg	
91-20-3	Naphthalene	ND	140	ug/kg	
85-01-8	Phenanthrene	ND	140	ug/kg	
129-00-0	Pyrene	ND	140	ug/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SD-06A-01		
Lab Sample ID:	F4091-5	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	12.4
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	120	ug/kg	
208-96-8	Acenaphthylene	ND	120	ug/kg	
120-12-7	Anthracene	ND	120	ug/kg	
56-55-3	Benzo (a) anthracene	ND	120	ug/kg	
50-32-8	Benzo (a) pyrene	323	120	ug/kg	
205-99-2	Benzo (b) fluoranthene	1790	120	ug/kg	
191-24-2	Benzo (g,h,i) perylene	55900	120	ug/kg	
207-08-9	Benzo (k) fluoranthene	4020	120	ug/kg	
218-01-9	Chrysene	ND	120	ug/kg	
53-70-3	Dibenz(a,h)anthracene	141	120	ug/kg	
206-44-0	Fluoranthene	ND	120	ug/kg	
86-73-7	Fluorene	ND	120	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	120	ug/kg	
90-12-0	1-Methylnaphthalene	ND	120	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	ug/kg	
91-20-3	Naphthalene	ND	120	ug/kg	
85-01-8	Phenanthrene	ND	120	ug/kg	
129-00-0	Pyrene	ND	120	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	55%		20-130%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SD-06B-01		
Lab Sample ID:	F4091-6	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	74.1
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	05/16/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	140	ug/kg	
208-96-8	Acenaphthylene	ND	140	ug/kg	
120-12-7	Anthracene	ND	140	ug/kg	
56-55-3	Benzo (a) anthracene	ND	20	ug/kg	
50-32-8	Benzo (a) pyrene	ND	20	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	20	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	20	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	20	ug/kg	
218-01-9	Chrysene	ND	20	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	20	ug/kg	
206-44-0	Fluoranthene	ND	20	ug/kg	
86-73-7	Fluorene	ND	140	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	20	ug/kg	
90-12-0	1-Methylnaphthalene	ND	140	ug/kg	
91-57-6	2-Methylnaphthalene	ND	140	ug/kg	
91-20-3	Naphthalene	ND	140	ug/kg	
85-01-8	Phenanthrene	ND	140	ug/kg	
129-00-0	Pyrene	ND	20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	52%		20-130%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SD-06C-01		
Lab Sample ID:	F4091-7	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	35.5
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	280	ug/kg	
208-96-8	Acenaphthylene	ND	280	ug/kg	
120-12-7	Anthracene	ND	280	ug/kg	
56-55-3	Benzo (a) anthracene	ND	42	ug/kg	
50-32-8	Benzo (a) pyrene	144	42	ug/kg	
205-99-2	Benzo (b) fluoranthene	1150	42	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	42	ug/kg	
207-08-9	Benzo (k) fluoranthene	1060	42	ug/kg	
218-01-9	Chrysene	ND	42	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	42	ug/kg	
206-44-0	Fluoranthene	ND	42	ug/kg	
86-73-7	Fluorene	ND	280	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	42	ug/kg	
90-12-0	1-Methylnaphthalene	ND	280	ug/kg	
91-57-6	2-Methylnaphthalene	ND	280	ug/kg	
91-20-3	Naphthalene	ND	280	ug/kg	
85-01-8	Phenanthrene	ND	280	ug/kg	
129-00-0	Pyrene	ND	42	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	48%		20-130%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SD-007-01		
Lab Sample ID:	F4091-8	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	14.3
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo (a) anthracene	ND	100	ug/kg	
50-32-8	Benzo (a) pyrene	133	100	ug/kg	
205-99-2	Benzo (b) fluoranthene	343	100	ug/kg	
191-24-2	Benzo (g,h,i) perylene	9500	100	ug/kg	
207-08-9	Benzo (k) fluoranthene	831	100	ug/kg	
218-01-9	Chrysene	106	100	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	100	ug/kg	
206-44-0	Fluoranthene	ND	100	ug/kg	
86-73-7	Fluorene	291	100	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	100	ug/kg	
90-12-0	1-Methylnaphthalene	ND	100	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	31%		20-130%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SD-DUP01		
Lab Sample ID:	F4091-36	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	10.2
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	1000	ug/kg	
208-96-8	Acenaphthylene	ND	1000	ug/kg	
120-12-7	Anthracene	ND	1000	ug/kg	
56-55-3	Benzo (a) anthracene	ND	150	ug/kg	
50-32-8	Benzo (a) pyrene	1070	150	ug/kg	
205-99-2	Benzo (b) fluoranthene	2660	150	ug/kg	
191-24-2	Benzo (g,h,i) perylene	6220	150	ug/kg	
207-08-9	Benzo (k) fluoranthene	2030	150	ug/kg	
218-01-9	Chrysene	ND	150	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	150	ug/kg	
206-44-0	Fluoranthene	ND	150	ug/kg	
86-73-7	Fluorene	ND	1000	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	150	ug/kg	
90-12-0	1-Methylnaphthalene	ND	1000	ug/kg	
91-57-6	2-Methylnaphthalene	ND	1000	ug/kg	
91-20-3	Naphthalene	ND	1000	ug/kg	
85-01-8	Phenanthrene	ND	1000	ug/kg	
129-00-0	Pyrene	ND	150	ug/kg	

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

(a) Elevated MDL due to low percent solids.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-001-01		
Lab Sample ID:	F4091-9	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	97.5
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	05/16/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo (a) anthracene	ND	15	ug/kg	
50-32-8	Benzo (a) pyrene	ND	15	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	15	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	15	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	15	ug/kg	
218-01-9	Chrysene	ND	15	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	15	ug/kg	
206-44-0	Fluoranthene	ND	15	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	15	ug/kg	
90-12-0	1-Methylnaphthalene	ND	100	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		20-130%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-002-01		
Lab Sample ID:	F4091-10	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	92.6
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	06/06/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	110	ug/kg	
208-96-8	Acenaphthylene	ND	110	ug/kg	
120-12-7	Anthracene	ND	110	ug/kg	
56-55-3	Benzo (a) anthracene	ND	16	ug/kg	
50-32-8	Benzo (a) pyrene	ND	16	ug/kg	
205-99-2	Benzo (b) fluoranthene	141	16	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	16	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	16	ug/kg	
218-01-9	Chrysene	ND	16	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	16	ug/kg	
206-44-0	Fluoranthene	148	16	ug/kg	
86-73-7	Fluorene	ND	110	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	16	ug/kg	
90-12-0	1-Methylnaphthalene	ND	110	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	ug/kg	
91-20-3	Naphthalene	ND	110	ug/kg	
85-01-8	Phenanthrene	ND	110	ug/kg	
129-00-0	Pyrene	ND	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		20-130%

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-003-01		
Lab Sample ID:	F4091-11	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	88.6
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	110	ug/kg	
208-96-8	Acenaphthylene	ND	110	ug/kg	
120-12-7	Anthracene	ND	110	ug/kg	
56-55-3	Benzo (a) anthracene	ND	17	ug/kg	
50-32-8	Benzo (a) pyrene	106	17	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	17	ug/kg	
191-24-2	Benzo (g,h,i) perylene	104	17	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	17	ug/kg	
218-01-9	Chrysene	144	17	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	17	ug/kg	
206-44-0	Fluoranthene	ND	17	ug/kg	
86-73-7	Fluorene	ND	110	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	110	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	ug/kg	
91-20-3	Naphthalene	ND	110	ug/kg	
85-01-8	Phenanthrene	ND	110	ug/kg	
129-00-0	Pyrene	ND	17	ug/kg	

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

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-03A-01		
Lab Sample ID:	F4091-12	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	67.5
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	150	ug/kg	
208-96-8	Acenaphthylene	ND	150	ug/kg	
120-12-7	Anthracene	ND	150	ug/kg	
56-55-3	Benzo (a) anthracene	ND	22	ug/kg	
50-32-8	Benzo (a) pyrene	ND	22	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	22	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	22	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	22	ug/kg	
218-01-9	Chrysene	ND	22	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	22	ug/kg	
206-44-0	Fluoranthene	ND	22	ug/kg	
86-73-7	Fluorene	ND	150	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	22	ug/kg	
90-12-0	1-Methylnaphthalene	ND	150	ug/kg	
91-57-6	2-Methylnaphthalene	ND	150	ug/kg	
91-20-3	Naphthalene	ND	150	ug/kg	
85-01-8	Phenanthrene	ND	150	ug/kg	
129-00-0	Pyrene	ND	22	ug/kg	

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

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-03B-01		
Lab Sample ID:	F4091-13	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	97.7
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo (a) anthracene	ND	15	ug/kg	
50-32-8	Benzo (a) pyrene	ND	15	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	15	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	15	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	15	ug/kg	
218-01-9	Chrysene	128	15	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	15	ug/kg	
206-44-0	Fluoranthene	102	15	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	15	ug/kg	
90-12-0	1-Methylnaphthalene	ND	100	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	59%		20-130%

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-03C-01		
Lab Sample ID:	F4091-14	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	80.9
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	120	ug/kg	
208-96-8	Acenaphthylene	ND	120	ug/kg	
120-12-7	Anthracene	ND	120	ug/kg	
56-55-3	Benzo (a) anthracene	393	19	ug/kg	
50-32-8	Benzo (a) pyrene	1020	19	ug/kg	
205-99-2	Benzo (b) fluoranthene	1070	19	ug/kg	
191-24-2	Benzo (g,h,i) perylene	580	19	ug/kg	
207-08-9	Benzo (k) fluoranthene	135	19	ug/kg	
218-01-9	Chrysene	624	19	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	19	ug/kg	
206-44-0	Fluoranthene	720	19	ug/kg	
86-73-7	Fluorene	ND	120	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	536	19	ug/kg	
90-12-0	1-Methylnaphthalene	ND	120	ug/kg	
91-57-6	2-Methylnaphthalene	347	120	ug/kg	
91-20-3	Naphthalene	247	120	ug/kg	
85-01-8	Phenanthrene	7690	120	ug/kg	
129-00-0	Pyrene	784	19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	48%		20-130%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-005-01		
Lab Sample ID:	F4091-16	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	71.4
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	140	ug/kg	
208-96-8	Acenaphthylene	ND	140	ug/kg	
120-12-7	Anthracene	ND	140	ug/kg	
56-55-3	Benzo (a) anthracene	ND	21	ug/kg	
50-32-8	Benzo (a) pyrene	ND	21	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	21	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	21	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	21	ug/kg	
218-01-9	Chrysene	ND	21	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	21	ug/kg	
206-44-0	Fluoranthene	ND	21	ug/kg	
86-73-7	Fluorene	ND	140	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	21	ug/kg	
90-12-0	1-Methylnaphthalene	ND	140	ug/kg	
91-57-6	2-Methylnaphthalene	ND	140	ug/kg	
91-20-3	Naphthalene	ND	140	ug/kg	
85-01-8	Phenanthrene	ND	140	ug/kg	
129-00-0	Pyrene	ND	21	ug/kg	

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

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-004-01		
Lab Sample ID:	F4091-15	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	97.3
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo (a) anthracene	ND	15	ug/kg	
50-32-8	Benzo (a) pyrene	ND	15	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	15	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	15	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	15	ug/kg	
218-01-9	Chrysene	ND	15	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	15	ug/kg	
206-44-0	Fluoranthene	ND	15	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	15	ug/kg	
90-12-0	1-Methylnaphthalene	ND	100	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	55%		20-130%

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-05A-01		
Lab Sample ID:	F4091-17	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	82.7
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	120	ug/kg	
208-96-8	Acenaphthylene	ND	120	ug/kg	
120-12-7	Anthracene	ND	120	ug/kg	
56-55-3	Benzo (a) anthracene	ND	18	ug/kg	
50-32-8	Benzo (a) pyrene	ND	18	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	18	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	18	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	18	ug/kg	
218-01-9	Chrysene	ND	18	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	18	ug/kg	
206-44-0	Fluoranthene	ND	18	ug/kg	
86-73-7	Fluorene	ND	120	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	18	ug/kg	
90-12-0	1-Methylnaphthalene	ND	120	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	ug/kg	
91-20-3	Naphthalene	ND	120	ug/kg	
85-01-8	Phenanthrene	ND	120	ug/kg	
129-00-0	Pyrene	ND	18	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	57%		20-130%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-05B-01		
Lab Sample ID:	F4091-18	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	75.7
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	130	ug/kg	
208-96-8	Acenaphthylene	ND	130	ug/kg	
120-12-7	Anthracene	ND	130	ug/kg	
56-55-3	Benzo (a) anthracene	ND	20	ug/kg	
50-32-8	Benzo (a) pyrene	ND	20	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	20	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	20	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	20	ug/kg	
218-01-9	Chrysene	~~0.000~~ ND	20	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	20	ug/kg	
206-44-0	Fluoranthene	ND	20	ug/kg	
86-73-7	Fluorene	ND	130	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	20	ug/kg	
90-12-0	1-Methylnaphthalene	ND	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	130	ug/kg	
91-20-3	Naphthalene	ND	130	ug/kg	
85-01-8	Phenanthrene	ND	130	ug/kg	
129-00-0	Pyrene	55.0	20	ug/kg	

6-24-99
JPJ

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	50%		20-130%

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-05C-01		
Lab Sample ID:	F4091-42	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	69.5
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	140	ug/kg	
208-96-8	Acenaphthylene	ND	140	ug/kg	
120-12-7	Anthracene	ND	140	ug/kg	
56-55-3	Benzo (a) anthracene	ND	22	ug/kg	
50-32-8	Benzo (a) pyrene	347	22	ug/kg	
205-99-2	Benzo (b) fluoranthene	258	22	ug/kg	
191-24-2	Benzo (g,h,i) perylene	124	22	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	22	ug/kg	
218-01-9	Chrysene	396	22	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	22	ug/kg	
206-44-0	Fluoranthene	103	22	ug/kg	
86-73-7	Fluorene	ND	140	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	121	22	ug/kg	
90-12-0	1-Methylnaphthalene	ND	140	ug/kg	
91-57-6	2-Methylnaphthalene	ND	140	ug/kg	
91-20-3	Naphthalene	ND	140	ug/kg	
85-01-8	Phenanthrene	ND	140	ug/kg	
129-00-0	Pyrene	150	22	ug/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-006-01		
Lab Sample ID:	F4091-19	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	81.0
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	120	ug/kg	
208-96-8	Acenaphthylene	ND	120	ug/kg	
120-12-7	Anthracene	ND	120	ug/kg	
56-55-3	Benzo (a) anthracene	114	18	ug/kg	
50-32-8	Benzo (a) pyrene	546	18	ug/kg	
205-99-2	Benzo (b) fluoranthene	557	18	ug/kg	
191-24-2	Benzo (g,h,i) perylene	366	18	ug/kg	
207-08-9	Benzo (k) fluoranthene	298	18	ug/kg	
218-01-9	Chrysene	258	18	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	18	ug/kg	
206-44-0	Fluoranthene	219	18	ug/kg	
86-73-7	Fluorene	ND	120	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	416	18	ug/kg	
90-12-0	1-Methylnaphthalene	ND	120	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	ug/kg	
91-20-3	Naphthalene	ND	120	ug/kg	
85-01-8	Phenanthrene	ND	120	ug/kg	
129-00-0	Pyrene	780	18	ug/kg	

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

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-007-01		
Lab Sample ID:	F4091-20	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	90.2
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/10/99	M:OP1217	M:GC1113
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	110	ug/kg	
208-96-8	Acenaphthylene	ND	110	ug/kg	
120-12-7	Anthracene	ND	110	ug/kg	
56-55-3	Benzo (a) anthracene	ND	17	ug/kg	
50-32-8	Benzo (a) pyrene	ND	17	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	17	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	17	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	17	ug/kg	
218-01-9	Chrysene	ND	17	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	17	ug/kg	
206-44-0	Fluoranthene	ND	17	ug/kg	
86-73-7	Fluorene	ND	110	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	110	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	ug/kg	
91-20-3	Naphthalene	ND	110	ug/kg	
85-01-8	Phenanthrene	ND	110	ug/kg	
129-00-0	Pyrene	ND	17	ug/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-008-01		
Lab Sample ID:	F4091-21	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	93.4
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	110	ug/kg	
208-96-8	Acenaphthylene	ND	110	ug/kg	
120-12-7	Anthracene	ND	110	ug/kg	
56-55-3	Benzo (a) anthracene	ND	16	ug/kg	
50-32-8	Benzo (a) pyrene	ND	16	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	16	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	16	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	16	ug/kg	
218-01-9	Chrysene	ND	16	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	16	ug/kg	
206-44-0	Fluoranthene	ND	16	ug/kg	
86-73-7	Fluorene	ND	110	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	16	ug/kg	
90-12-0	1-Methylnaphthalene	ND	110	ug/kg	
91-57-6	2-Methylnaphthalene	ND	110	ug/kg	
91-20-3	Naphthalene	ND	110	ug/kg	
85-01-8	Phenanthrene	ND	110	ug/kg	
129-00-0	Pyrene	ND	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		20-130%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-009-01		
Lab Sample ID:	F4091-22	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	97.6
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo (a) anthracene	ND	15	ug/kg	
50-32-8	Benzo (a) pyrene	ND	15	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	15	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	15	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	15	ug/kg	
218-01-9	Chrysene	ND	15	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	15	ug/kg	
206-44-0	Fluoranthene	ND	15	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	15	ug/kg	
90-12-0	1-Methylnaphthalene	ND	100	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	15	ug/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-010-01		
Lab Sample ID:	F4091-23	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	96.6
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo (a) anthracene	ND	16	ug/kg	
50-32-8	Benzo (a) pyrene	ND	16	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	16	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	16	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	16	ug/kg	
218-01-9	Chrysene	ND	16	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	16	ug/kg	
206-44-0	Fluoranthene	ND	16	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	16	ug/kg	
90-12-0	1-Methylnaphthalene	ND	100	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	16	ug/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-010-02		
Lab Sample ID:	F4091-35	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	97.2
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo (a) anthracene	ND	15	ug/kg	
50-32-8	Benzo (a) pyrene	ND	15	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	15	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	15	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	15	ug/kg	
218-01-9	Chrysene	ND	15	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	15	ug/kg	
206-44-0	Fluoranthene	ND	15	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	15	ug/kg	
90-12-0	1-Methylnaphthalene	ND	100	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		20-130%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-010-02		
Lab Sample ID:	F4091-35	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	FLORIDA-PRO	**Percent Solids:**	97.2
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P03900.D	1	05/10/99	SKW	05/10/99	OP798	GOP187
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH (C8-C40)	ND	86	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	109%		40-140%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

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

000045

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-P06-SS-011-01		
Lab Sample ID:	F4091-24	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	FLORIDA-PRO	**Percent Solids:**	97.3
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P03896.D	1	05/10/99	SKW	05/10/99	OP798	GOP187
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH (C8-C40)	ND	86	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	104%		40-140%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

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

000034

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-P06-SS-012-01		
Lab Sample ID:	F4091-25	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	FLORIDA-PRO	**Percent Solids:**	96.4
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P03899.D	1	05/10/99	SKW	05/10/99	OP798	GOP187
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH (C8-C40)	ND	86	mg/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

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

000035

Report of Analysis

Client Sample ID:	CEF-P06-SS-013-01		
Lab Sample ID:	F4091-26	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	45.3
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	220	ug/kg	
208-96-8	Acenaphthylene	ND	220	ug/kg	
120-12-7	Anthracene	ND	220	ug/kg	
56-55-3	Benzo (a) anthracene	ND	33	ug/kg	
50-32-8	Benzo (a) pyrene	ND	33	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	33	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	33	ug/kg	
207-08-9	Benzo (k) fluoranthene	326	33	ug/kg	
218-01-9	Chrysene	849	33	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	33	ug/kg	
206-44-0	Fluoranthene	ND	33	ug/kg	
86-73-7	Fluorene	ND	220	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	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	ND	33	ug/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-014-01		
Lab Sample ID:	F4091-27	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	85.9
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	120	ug/kg	
208-96-8	Acenaphthylene	ND	120	ug/kg	
120-12-7	Anthracene	ND	120	ug/kg	
56-55-3	Benzo (a) anthracene	ND	17	ug/kg	
50-32-8	Benzo (a) pyrene	ND	17	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	17	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	17	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	17	ug/kg	
218-01-9	Chrysene	ND	17	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	17	ug/kg	
206-44-0	Fluoranthene	ND	17	ug/kg	
86-73-7	Fluorene	ND	120	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	17	ug/kg	
90-12-0	1-Methylnaphthalene	ND	120	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	ug/kg	
91-20-3	Naphthalene	ND	120	ug/kg	
85-01-8	Phenanthrene	ND	120	ug/kg	
129-00-0	Pyrene	ND	17	ug/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-015-01		
Lab Sample ID:	F4091-28	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	58.5
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	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	87%		20-130%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-016-01		
Lab Sample ID:	F4091-29	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	80.0
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	120	ug/kg	
208-96-8	Acenaphthylene	ND	120	ug/kg	
120-12-7	Anthracene	ND	120	ug/kg	
56-55-3	Benzo (a) anthracene	ND	19	ug/kg	
50-32-8	Benzo (a) pyrene	ND	19	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	19	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	19	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	19	ug/kg	
218-01-9	Chrysene	ND	19	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	19	ug/kg	
206-44-0	Fluoranthene	ND	19	ug/kg	
86-73-7	Fluorene	ND	120	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	19	ug/kg	
90-12-0	1-Methylnaphthalene	ND	120	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	ug/kg	
91-20-3	Naphthalene	ND	120	ug/kg	
85-01-8	Phenanthrene	ND	120	ug/kg	
129-00-0	Pyrene	ND	19	ug/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-016A-01		
Lab Sample ID:	F4091-41	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	96.6
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo (a) anthracene	ND	16	ug/kg	
50-32-8	Benzo (a) pyrene	ND	16	ug/kg	
205-99-2	Benzo (b) fluoranthene	114	16	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	16	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	16	ug/kg	
218-01-9	Chrysene	ND	16	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	16	ug/kg	
206-44-0	Fluoranthene	119	16	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	16	ug/kg	
90-12-0	1-Methylnaphthalene	ND	100	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	16	ug/kg	

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

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-017-01		
Lab Sample ID:	F4091-30	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	84.3
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	120	ug/kg	
208-96-8	Acenaphthylene	ND	120	ug/kg	
120-12-7	Anthracene	ND	120	ug/kg	
56-55-3	Benzo (a) anthracene	ND	18	ug/kg	
50-32-8	Benzo (a) pyrene	ND	18	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	18	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	18	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	18	ug/kg	
218-01-9	Chrysene	ND	18	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	18	ug/kg	
206-44-0	Fluoranthene	ND	18	ug/kg	
86-73-7	Fluorene	ND	120	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	18	ug/kg	
90-12-0	1-Methylnaphthalene	ND	120	ug/kg	
91-57-6	2-Methylnaphthalene	ND	120	ug/kg	
91-20-3	Naphthalene	ND	120	ug/kg	
85-01-8	Phenanthrene	ND	120	ug/kg	
129-00-0	Pyrene	ND	18	ug/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-018-01		
Lab Sample ID:	F4091-31	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	71.2
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	140	ug/kg	
208-96-8	Acenaphthylene	ND	140	ug/kg	
120-12-7	Anthracene	ND	140	ug/kg	
56-55-3	Benzo (a) anthracene	ND	21	ug/kg	
50-32-8	Benzo (a) pyrene	ND	21	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	21	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	21	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	21	ug/kg	
218-01-9	Chrysene	ND	21	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	21	ug/kg	
206-44-0	Fluoranthene	ND	21	ug/kg	
86-73-7	Fluorene	ND	140	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	21	ug/kg	
90-12-0	1-Methylnaphthalene	ND	140	ug/kg	
91-57-6	2-Methylnaphthalene	ND	140	ug/kg	
91-20-3	Naphthalene	ND	140	ug/kg	
85-01-8	Phenanthrene	131	140	ug/kg	
129-00-0	Pyrene	ND	21	ug/kg	

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

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-019-01		
Lab Sample ID:	F4091-32	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	77.8
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	130	ug/kg	
208-96-8	Acenaphthylene	ND	130	ug/kg	
120-12-7	Anthracene	ND	130	ug/kg	
56-55-3	Benzo (a) anthracene	237	19	ug/kg	
50-32-8	Benzo (a) pyrene	518	19	ug/kg	
205-99-2	Benzo (b) fluoranthene	717	19	ug/kg	
191-24-2	Benzo (g,h,i) perylene	342	19	ug/kg	
207-08-9	Benzo (k) fluoranthene	343	19	ug/kg	
218-01-9	Chrysene	344	19	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	19	ug/kg	
206-44-0	Fluoranthene	272	19	ug/kg	
86-73-7	Fluorene	ND	130	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	361	19	ug/kg	
90-12-0	1-Methylnaphthalene	ND	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	130	ug/kg	
91-20-3	Naphthalene	ND	130	ug/kg	
85-01-8	Phenanthrene	ND	130	ug/kg	
129-00-0	Pyrene	513	19	ug/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-020-01		
Lab Sample ID:	F4091-33	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	74.5
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	130	ug/kg	
208-96-8	Acenaphthylene	ND	130	ug/kg	
120-12-7	Anthracene	ND	130	ug/kg	
56-55-3	Benzo (a) anthracene	ND	20	ug/kg	
50-32-8	Benzo (a) pyrene	ND	20	ug/kg	
205-99-2	Benzo (b) fluoranthene	156	20	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	20	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	20	ug/kg	
218-01-9	Chrysene	ND	20	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	20	ug/kg	
206-44-0	Fluoranthene	268	20	ug/kg	
86-73-7	Fluorene	ND	130	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	20	ug/kg	
90-12-0	1-Methylnaphthalene	ND	130	ug/kg	
91-57-6	2-Methylnaphthalene	ND	130	ug/kg	
91-20-3	Naphthalene	ND	130	ug/kg	
85-01-8	Phenanthrene	ND	130	ug/kg	
129-00-0	Pyrene	308	20	ug/kg	

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

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-021-01		
Lab Sample ID:	F4091-34	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	72.7
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	140	ug/kg	
208-96-8	Acenaphthylene	ND	140	ug/kg	
120-12-7	Anthracene	ND	140	ug/kg	
56-55-3	Benzo (a) anthracene	ND	21	ug/kg	
50-32-8	Benzo (a) pyrene	218	21	ug/kg	
205-99-2	Benzo (b) fluoranthene	271	21	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	21	ug/kg	
207-08-9	Benzo (k) fluoranthene	155	21	ug/kg	
218-01-9	Chrysene	151	21	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	21	ug/kg	
206-44-0	Fluoranthene	126	21	ug/kg	
86-73-7	Fluorene	ND	140	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	21	ug/kg	
90-12-0	1-Methylnaphthalene	ND	140	ug/kg	
91-57-6	2-Methylnaphthalene	ND	140	ug/kg	
91-20-3	Naphthalene	ND	140	ug/kg	
85-01-8	Phenanthrene	ND	140	ug/kg	
129-00-0	Pyrene	168	21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		20-130%

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-DUP01		
Lab Sample ID:	F4091-37	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	92.4
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	179	110	ug/kg	
208-96-8	Acenaphthylene	536	110	ug/kg	
120-12-7	Anthracene	103	110	ug/kg	
56-55-3	Benzo (a) anthracene	151	16	ug/kg	
50-32-8	Benzo (a) pyrene	ND	16	ug/kg	
205-99-2	Benzo (b) fluoranthene	157	16	ug/kg	
191-24-2	Benzo (g,h,i) perylene	146	16	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	16	ug/kg	
218-01-9	Chrysene	254	16	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	16	ug/kg	
206-44-0	Fluoranthene	448	16	ug/kg	
86-73-7	Fluorene	ND	110	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	146	16	ug/kg	
90-12-0	1-Methylnaphthalene	ND	110	ug/kg	
91-57-6	2-Methylnaphthalene	282	110	ug/kg	
91-20-3	Naphthalene	ND	110	ug/kg	
85-01-8	Phenanthrene [b]	20300	110	ug/kg	
129-00-0	Pyrene	485	16	ug/kg	

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

(a) Analyzed by Accutest NE HRS I.D.# E87579
(b) Estimated value due to matrix interference.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-DUP02		
Lab Sample ID:	F4091-38	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	FLORIDA-PRO	**Percent Solids:**	97.5
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P03901.D	1	05/10/99	SKW	05/10/99	OP798	GOP187
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH (C8-C40)	ND	86	mg/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-DUP03		
Lab Sample ID:	F4091-39	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	68.5
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	05/16/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	126	150	ug/kg	
208-96-8	Acenaphthylene	ND	150	ug/kg	
120-12-7	Anthracene	ND	150	ug/kg	
56-55-3	Benzo (a) anthracene	263	22	ug/kg	
50-32-8	Benzo (a) pyrene	691	22	ug/kg	
205-99-2	Benzo (b) fluoranthene	605	22	ug/kg	
191-24-2	Benzo (g,h,i) perylene	445	22	ug/kg	
207-08-9	Benzo (k) fluoranthene	243	22	ug/kg	
218-01-9	Chrysene	326	22	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	22	ug/kg	
206-44-0	Fluoranthene	174	22	ug/kg	
86-73-7	Fluorene	ND	150	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	459	22	ug/kg	
90-12-0	1-Methylnaphthalene	ND	150	ug/kg	
91-57-6	2-Methylnaphthalene	ND	150	ug/kg	
91-20-3	Naphthalene	ND	150	ug/kg	
85-01-8	Phenanthrene	ND	150	ug/kg	
129-00-0	Pyrene	418	22	ug/kg	

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

(a) Analyzed by Accutest NE HRS I.D.# E87579

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-DUP04		
Lab Sample ID:	F4091-40	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	SW846 8310	**Percent Solids:**	95.7
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	06/06/99	AMA	05/11/99	M:OP1218	M:GC1112
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	100	ug/kg	
208-96-8	Acenaphthylene	ND	100	ug/kg	
120-12-7	Anthracene	ND	100	ug/kg	
56-55-3	Benzo (a) anthracene	ND	16	ug/kg	
50-32-8	Benzo (a) pyrene	ND	16	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	16	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	16	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	16	ug/kg	
218-01-9	Chrysene	ND	16	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	16	ug/kg	
206-44-0	Fluoranthene	ND	16	ug/kg	
86-73-7	Fluorene	ND	100	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	16	ug/kg	
90-12-0	1-Methylnaphthalene	ND	100	ug/kg	
91-57-6	2-Methylnaphthalene	ND	100	ug/kg	
91-20-3	Naphthalene	ND	100	ug/kg	
85-01-8	Phenanthrene	ND	100	ug/kg	
129-00-0	Pyrene	ND	16	ug/kg	

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

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-DUP04		
Lab Sample ID:	F4091-40	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
Method:	FLORIDA-PRO	**Percent Solids:**	95.7
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P03902.D	1	05/10/99	SKW	05/10/99	OP798	GOP187
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
	TPH (C8-C40)	ND	87	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	104%		40-140%

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-002-01		
Lab Sample ID:	F4091-10	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
		Percent Solids:	92.6
Project:	NAS Cecil Field-PSC 06		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.29 U	1.1	mg/kg	1	05/10/99	05/10/99	JK	SW846 6010A

RDL = Reported Detection Limit

000016

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-P06-SS-003-01		
Lab Sample ID:	F4091-11	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
		Percent Solids:	88.6
Project:	NAS Cecil Field-PSC 06		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed By		Method
Arsenic	0.35 B	1.1	mg/kg	1	05/10/99	05/10/99	JK	SW846 6010A

RDL = Reported Detection Limit

000018

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-P06-SS-03A-01		
Lab Sample ID:	F4091-12	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
		Percent Solids:	67.5
Project:	NAS Cecil Field-PSC 06		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.46 B	1.5	mg/kg	1	05/10/99	05/10/99	JK	SW846 6010A

RDL = Reported Detection Limit

000020

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-P06-SS-03B-01		
Lab Sample ID:	F4091-13	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
		Percent Solids:	97.7
Project:	NAS Cecil Field-PSC 06		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed By		Method
Arsenic	3.0	1.0	mg/kg	1	05/10/99	05/10/99	JK	SW846 6010A

RDL = Reported Detection Limit

000022

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-P06-SS-03C-01		
Lab Sample ID:	F4091-14	**Date Sampled:**	05/01/99
Matrix:	SO - Soil	**Date Received:**	05/04/99
		Percent Solids:	80.9
Project:	NAS Cecil Field-PSC 06		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed By		Method
Arsenic	0.33 U	1.2	mg/kg	1	05/10/99	05/10/99	JK	SW846 6010A

RDL = Reported Detection Limit

000024

PHASE II ANALYTICAL DATA

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-P06-SS-106-01		
Lab Sample ID:	F4388-6	**Date Sampled:**	06/23/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
Method:	EPA 8310	**Percent Solids:**	~~n/a~~ 67.7%
Project:	NAS Cecil Field		

GAP 7-15-99

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	07/09/99	SUB	n/a	n/a	R6899
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	490	480	ug/kg	
208-96-8	Acenaphthylene	ND	980	ug/kg	
120-12-7	Anthracene	94	72	ug/kg	
56-55-3	Benzo(a)anthracene	310	72	ug/kg	
50-32-8	Benzo(a)pyrene	480	72	ug/kg	
205-99-2	Benzo(b)fluoranthene	480	72	ug/kg	
191-24-2	Benzo(g,h,i)perylene	470	96	ug/kg	
207-08-9	Benzo(k)fluoranthene	260	72	ug/kg	
218-01-9	Chrysene	280	76	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	ug/kg	
206-44-0	Fluoranthene	540	96	ug/kg	
86-73-7	Fluorene	ND	96	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	260	72	ug/kg	
91-20-3	Naphthalene	ND	480	ug/kg	
90-12-0	1-Methylnaphthalene	ND	480	ug/kg	
91-57-6	2-Methylnaphthalene	ND	480	ug/kg	
85-01-8	Phenanthrene	190	72	ug/kg	
129-00-0	Pyrene	490	96	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	p-Terphenyl-d14	%		-%

(a) Analyzed By Accutest Southeast Subcontract Lab.

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

00004

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-P06-SS-107-01		
Lab Sample ID:	F4388-7	**Date Sampled:**	06/23/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
Method:	EPA 8310	**Percent Solids:**	~~n/a~~ 86.1% GAP 7-15-99
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	07/09/99	SUB	n/a	n/a	R6899
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	410	370	ug/kg	
208-96-8	Acenaphthylene	ND	750	ug/kg	
120-12-7	Anthracene	56	56	ug/kg	
56-55-3	Benzo(a)anthracene	160	56	ug/kg	
50-32-8	Benzo(a)pyrene	260	56	ug/kg	
205-99-2	Benzo(b)fluoranthene	250	56	ug/kg	
191-24-2	Benzo(g,h,i)perylene	240	74	ug/kg	
207-08-9	Benzo(k)fluoranthene	140	56	ug/kg	
218-01-9	Chrysene	500	56	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	92	ug/kg	
206-44-0	Fluoranthene	330	74	ug/kg	
86-73-7	Fluorene	ND	74	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	140	56	ug/kg	
91-20-3	Naphthalene	ND	370	ug/kg	
90-12-0	1-Methylnaphthalene	ND	370	ug/kg	
91-57-6	2-Methylnaphthalene	ND	370	ug/kg	
85-01-8	Phenanthrene	92	56	ug/kg	
129-00-0	Pyrene	250	74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	p-Terphenyl-d14	%		-%

(a) Analyzed By Accutest Southeast Subcontract Lab.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

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

00005

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Report of Analysis

Client Sample ID:	CEF-P06-SS-108-01		
Lab Sample ID:	F4388-8	**Date Sampled:**	06/23/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
Method:	EPA 8310	**Percent Solids:**	~~n/a~~ 73.5% GAP 7-15-99
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	07/09/99	SUB	n/a	n/a	R6899
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	770	460	ug/kg	
208-96-8	Acenaphthylene	ND	940	ug/kg	
120-12-7	Anthracene	180	69	ug/kg	
56-55-3	Benzo(a)anthracene	520	69	ug/kg	
50-32-8	Benzo(a)pyrene	690	69	ug/kg	
205-99-2	Benzo(b)fluoranthene	700	69	ug/kg	
191-24-2	Benzo(g,h,i)perylene	610	92	ug/kg	
207-08-9	Benzo(k)fluoranthene	370	69	ug/kg	
218-01-9	Chrysene	600	69	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	120	ug/kg	
206-44-0	Fluoranthene	1200	92	ug/kg	
86-73-7	Fluorene	ND	92	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	340	69	ug/kg	
91-20-3	Naphthalene	ND	460	ug/kg	
90-12-0	1-Methylnaphthalene	ND	460	ug/kg	
91-57-6	2-Methylnaphthalene	500	460	ug/kg	
85-01-8	Phenanthrene	450	69	ug/kg	
129-00-0	Pyrene	910	92	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	p-Terphenyl-d14	%		-%

(a) Analyzed By Accutest Southeast Subcontract Lab.

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

00008

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Report of Analysis

Client Sample ID:	CEF-P06-SS-109-01		
Lab Sample ID:	F4388-9	**Date Sampled:**	06/23/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
Method:	EPA 8310	**Percent Solids:**	~~n/a~~ 73.3% GAP 7-15-99
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	07/09/99	SUB	n/a	n/a	R6899
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	540	440	ug/kg	
208-96-8	Acenaphthylene	ND	890	ug/kg	
120-12-7	Anthracene	70	66	ug/kg	
56-55-3	Benzo(a)anthracene	370	66	ug/kg	
50-32-8	Benzo(a)pyrene	510	66	ug/kg	
205-99-2	Benzo(b)fluoranthene	530	66	ug/kg	
191-24-2	Benzo(g,h,i)perylene	420	88	ug/kg	
207-08-9	Benzo(k)fluoranthene	250	66	ug/kg	
218-01-9	Chrysene	340	66	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	110	ug/kg	
206-44-0	Fluoranthene	720	88	ug/kg	
86-73-7	Fluorene	ND	88	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	220	66	ug/kg	
91-20-3	Naphthalene	ND	440	ug/kg	
90-12-0	1-Methylnaphthalene	ND	440	ug/kg	
91-57-6	2-Methylnaphthalene	ND	440	ug/kg	
85-01-8	Phenanthrene	210	66	ug/kg	
129-00-0	Pyrene	610	88	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	p-Terphenyl-d14	%		-%

(a) Analyzed By Accutest Southeast Subcontract Lab.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

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

00097

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Report of Analysis

Client Sample ID:	CEF-P06-SS-110-02		
Lab Sample ID:	F4388-10	**Date Sampled:**	06/23/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
Method:	EPA 8310	**Percent Solids:**	~~n/a~~ 94.6% GAP 7-15-99
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	07/09/99	SUB	n/a	n/a	R6899
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	35	ug/kg	
208-96-8	Acenaphthylene	ND	70	ug/kg	
120-12-7	Anthracene	ND	5.2	ug/kg	
56-55-3	Benzo(a)anthracene	17	5.2	ug/kg	
50-32-8	Benzo(a)pyrene	15	5.2	ug/kg	
205-99-2	Benzo(b)fluoranthene	23	5.2	ug/kg	
191-24-2	Benzo(g,h,i)perylene	13	7.0	ug/kg	
207-08-9	Benzo(k)fluoranthene	8.1	5.2	ug/kg	
218-01-9	Chrysene	ND	5.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	8.8	ug/kg	
206-44-0	Fluoranthene	28	7.0	ug/kg	
86-73-7	Fluorene	ND	7.0	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	8.4	5.2	ug/kg	
91-20-3	Naphthalene	430	35	ug/kg	
90-12-0	1-Methylnaphthalene	100	35	ug/kg	
91-57-6	2-Methylnaphthalene	ND	35	ug/kg	
85-01-8	Phenanthrene	8.2	5.2	ug/kg	
129-00-0	Pyrene	18	7.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	p-Terphenyl-d14	%		-%

(a) Analyzed By Accutest Southeast Subcontract Lab.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-111-01		
Lab Sample ID:	F4388-11	**Date Sampled:**	06/23/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
Method:	EPA 8310	**Percent Solids:**	~~n/a~~ 85.7% GAP 7-15-99
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	07/09/99	SUB	n/a	n/a	R6899
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	470	370	ug/kg	
208-96-8	Acenaphthylene	ND	1200	ug/kg	
120-12-7	Anthracene	ND	56	ug/kg	
56-55-3	Benzo(a)anthracene	220	56	ug/kg	
50-32-8	Benzo(a)pyrene	400	56	ug/kg	
205-99-2	Benzo(b)fluoranthene	640	56	ug/kg	
191-24-2	Benzo(g,h,i)perylene	380	74	ug/kg	
207-08-9	Benzo(k)fluoranthene	200	56	ug/kg	
218-01-9	Chrysene	ND	56	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	92	ug/kg	
206-44-0	Fluoranthene	490	74	ug/kg	
86-73-7	Fluorene	160	74	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	210	56	ug/kg	
91-20-3	Naphthalene	ND	370	ug/kg	
90-12-0	1-Methylnaphthalene	ND	370	ug/kg	
91-57-6	2-Methylnaphthalene	ND	370	ug/kg	
85-01-8	Phenanthrene	ND	56	ug/kg	
129-00-0	Pyrene	1100	74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	p-Terphenyl-d14	%		-%

(a) Analyzed By Accutest Southeast Subcontract Lab.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

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

00009

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-P06-SS-112-01		
Lab Sample ID:	F4388-12	**Date Sampled:**	06/23/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
Method:	EPA 8310	**Percent Solids:**	~~n/a~~ 85.5% GAP 7-15-99
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	07/09/99	SUB	n/a	n/a	R6899
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	770	ug/kg	
120-12-7	Anthracene	ND	57	ug/kg	
56-55-3	Benzo(a)anthracene	ND	57	ug/kg	
50-32-8	Benzo(a)pyrene	130	57	ug/kg	
205-99-2	Benzo(b)fluoranthene	150	57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	180	76	ug/kg	
207-08-9	Benzo(k)fluoranthene	70	57	ug/kg	
218-01-9	Chrysene	ND	57	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	95	ug/kg	
206-44-0	Fluoranthene	ND	76	ug/kg	
86-73-7	Fluorene	ND	76	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	87	57	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
90-12-0	1-Methylnaphthalene	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
85-01-8	Phenanthrene	ND	57	ug/kg	
129-00-0	Pyrene	110	76	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	p-Terphenyl-d14	%		-%

(a) Analyzed By Accutest Southeast Subcontract Lab.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

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

00010

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-P06-SS-113-01		
Lab Sample ID:	F4388-13	**Date Sampled:**	06/23/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
Method:	EPA 8310	**Percent Solids:**	~~n/a~~ 87.4% GAP 1599
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	07/09/99	SUB	n/a	n/a	R6899
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	390	380	ug/kg	
208-96-8	Acenaphthylene	ND	770	ug/kg	
120-12-7	Anthracene	100	57	ug/kg	
56-55-3	Benzo(a)anthracene	310	57	ug/kg	
50-32-8	Benzo(a)pyrene	420	57	ug/kg	
205-99-2	Benzo(b)fluoranthene	480	57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	390	76	ug/kg	
207-08-9	Benzo(k)fluoranthene	240	57	ug/kg	
218-01-9	Chrysene	420	57	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	96	ug/kg	
206-44-0	Fluoranthene	720	76	ug/kg	
86-73-7	Fluorene	ND	76	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	230	57	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
90-12-0	1-Methylnaphthalene	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
85-01-8	Phenanthrene	300	57	ug/kg	
129-00-0	Pyrene	690	76	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	p-Terphenyl-d14	%		-%

(a) Analyzed By Accutest Southeast Subcontract Lab.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-114-02		
Lab Sample ID:	F4388-14	**Date Sampled:**	06/23/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
Method:	EPA 8310	**Percent Solids:**	~~n/a~~ 85.9% GAP 7-15-99
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	07/09/99	SUB	n/a	n/a	R6899
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	760	ug/kg	
120-12-7	Anthracene	ND	57	ug/kg	
56-55-3	Benzo(a)anthracene	190	57	ug/kg	
50-32-8	Benzo(a)pyrene	310	57	ug/kg	
205-99-2	Benzo(b)fluoranthene	320	57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	260	76	ug/kg	
207-08-9	Benzo(k)fluoranthene	160	57	ug/kg	
218-01-9	Chrysene	200	57	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	96	ug/kg	
206-44-0	Fluoranthene	310	76	ug/kg	
86-73-7	Fluorene	ND	76	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	140	57	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
90-12-0	1-Methylnaphthalene	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
85-01-8	Phenanthrene	65	57	ug/kg	
129-00-0	Pyrene	370	76	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	p-Terphenyl-d14	%		-%

(a) Analyzed By Accutest Southeast Subcontract Lab.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-DU05		
Lab Sample ID:	F4388-15	**Date Sampled:**	06/23/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
Method:	EPA 8310	**Percent Solids:**	~~n/a~~ 85.3% GAP 7-15-99
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	07/09/99	SUB	n/a	n/a	R6899
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	980	390	ug/kg	
208-96-8	Acenaphthylene	ND	790	ug/kg	
120-12-7	Anthracene	ND	58	ug/kg	
56-55-3	Benzo(a)anthracene	410	58	ug/kg	
50-32-8	Benzo(a)pyrene	900	58	ug/kg	
205-99-2	Benzo(b)fluoranthene	1300	58	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1000	78	ug/kg	
207-08-9	Benzo(k)fluoranthene	660	58	ug/kg	
218-01-9	Chrysene	640	58	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	140	98	ug/kg	
206-44-0	Fluoranthene	880	78	ug/kg	
86-73-7	Fluorene	ND	78	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	620	58	ug/kg	
91-20-3	Naphthalene	ND	390	ug/kg	
90-12-0	1-Methylnaphthalene	ND	390	ug/kg	
91-57-6	2-Methylnaphthalene	650	390	ug/kg	
85-01-8	Phenanthrene	100	58	ug/kg	
129-00-0	Pyrene	600	78	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	p-Terphenyl-d14	%		-%

(a) Analyzed By Accutest Southeast Subcontract Lab.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-DU06		
Lab Sample ID:	F4388-16	**Date Sampled:**	06/23/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
Method:	EPA 8310	**Percent Solids:**	~~84.3~~ 84.2% GMP 7-15-99
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]		1	07/09/99	SUB	n/a	n/a	R6899
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	780	ug/kg	
120-12-7	Anthracene	ND	57	ug/kg	
56-55-3	Benzo(a)anthracene	66	57	ug/kg	
50-32-8	Benzo(a)pyrene	180	57	ug/kg	
205-99-2	Benzo(b)fluoranthene	170	57	ug/kg	
191-24-2	Benzo(g,h,i)perylene	140	76	ug/kg	
207-08-9	Benzo(k)fluoranthene	76	57	ug/kg	
218-01-9	Chrysene	60	57	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	96	ug/kg	
206-44-0	Fluoranthene	81	76	ug/kg	
86-73-7	Fluorene	ND	76	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	100	57	ug/kg	
91-20-3	Naphthalene	ND	380	ug/kg	
90-12-0	1-Methylnaphthalene	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	ND	380	ug/kg	
85-01-8	Phenanthrene	ND	57	ug/kg	
129-00-0	Pyrene	130	76	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1718-51-0	p-Terphenyl-d14	%		-%

(a) Analyzed By Accutest Southeast Subcontract Lab.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-101-01		
Lab Sample ID:	F4388-1	**Date Sampled:**	06/22/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
		Percent Solids:	90.1
Project:	NAS Cecil Field		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.33 U	0.97	mg/kg	1	06/29/99	06/29/99	JK	SW846 6010A

RDL = Reported Detection Limit

Report of Analysis

Client Sample ID:	CEF-P06-SS-102-01		
Lab Sample ID:	F4388-2	**Date Sampled:**	06/22/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
		Percent Solids:	85.6
Project:	NAS Cecil Field		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	1.0	1.0	mg/kg	1	06/29/99	06/29/99	JK	SW846 6010A

RDL = Reported Detection Limit

Report of Analysis

Client Sample ID:	CEF-P06-SS-103-01		
Lab Sample ID:	F4388-3	**Date Sampled:**	06/22/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
		Percent Solids:	90.0
Project:	NAS Cecil Field		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	3.0	0.92	mg/kg	1	06/29/99	06/29/99	JK	SW846 6010A

RDL = Reported Detection Limit

Report of Analysis

Client Sample ID:	CEF-P06-SS-104-01		
Lab Sample ID:	F4388-4	**Date Sampled:**	06/22/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
		Percent Solids:	94.9
Project:	NAS Cecil Field		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed By		Method
Arsenic	0.27 B	0.61	mg/kg	1	06/29/99	06/29/99	JK	SW846 6010A

RDL = Reported Detection Limit

Report of Analysis

Client Sample ID:	CEF-P06-SS-105-02		
Lab Sample ID:	F4388-5	**Date Sampled:**	06/22/99
Matrix:	SO - Soil	**Date Received:**	06/24/99
		Percent Solids:	90.8
Project:	NAS Cecil Field		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed By		Method
Arsenic	0.28 U	0.81	mg/kg	1	06/29/99	06/29/99	JK	SW846 6010A

RDL = Reported Detection Limit

PHASE III ANALYTICAL DATA

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Report of Analysis

Client Sample ID:	CEF-P06-SS-201-01		
Lab Sample ID:	F4526-1	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
Method:	SW846 8310	**Percent Solids:**	89.4
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC5189.D	1	07/28/99	AMA	07/20/99	M:OP1361	M:GLC12
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	5560	370	ug/kg	
208-96-8	Acenaphthylene	ND	370	ug/kg	
120-12-7	Anthracene	1020	370	ug/kg	
56-55-3	Benzo (a) anthracene	5270	56	ug/kg	
50-32-8	Benzo (a) pyrene	7640	56	ug/kg	
205-99-2	Benzo (b) fluoranthene	7020	56	ug/kg	
191-24-2	Benzo (g,h,i) perylene	3460	56	ug/kg	
207-08-9	Benzo (k) fluoranthene	1320	56	ug/kg	
218-01-9	Chrysene	6640	56	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	56	ug/kg	
206-44-0	Fluoranthene	9910	56	ug/kg	
86-73-7	Fluorene	2230	370	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	5900	56	ug/kg	
90-12-0	1-Methylnaphthalene	ND	370	ug/kg	
91-57-6	2-Methylnaphthalene	5280	370	ug/kg	
91-20-3	Naphthalene	ND	370	ug/kg	
85-01-8	Phenanthrene	19600	370	ug/kg	
129-00-0	Pyrene	8870	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		20-130%

(a) Samples extracted at Severn-Trent Laboratories, Baltimore, Md. Surrogate not added.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-202-01		
Lab Sample ID:	F4526-2	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
Method:	SW846 8310	**Percent Solids:**	94.3
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC5190.D	1	07/28/99	AMA	07/20/99	M:OP1361	M:GLC12
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	6120	350	ug/kg	
208-96-8	Acenaphthylene	ND	350	ug/kg	
120-12-7	Anthracene	2410	350	ug/kg	
56-55-3	Benzo (a) anthracene	4450	53	ug/kg	
50-32-8	Benzo (a) pyrene	4960	53	ug/kg	
205-99-2	Benzo (b) fluoranthene	4640	53	ug/kg	
191-24-2	Benzo (g,h,i) perylene	2050	53	ug/kg	
207-08-9	Benzo (k) fluoranthene	716	53	ug/kg	
218-01-9	Chrysene	5920	53	ug/kg	
53-70-3	Dibenz(a,h)anthracene	975	53	ug/kg	
206-44-0	Fluoranthene	13200	53	ug/kg	
86-73-7	Fluorene	3370	350	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	3430	53	ug/kg	
90-12-0	1-Methylnaphthalene	ND	350	ug/kg	
91-57-6	2-Methylnaphthalene	6030	350	ug/kg	
91-20-3	Naphthalene	ND	350	ug/kg	
85-01-8	Phenanthrene	27200	350	ug/kg	
129-00-0	Pyrene	8950	53	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		20-130%

(a) Samples extracted at Severn-Trent Laboratories, Baltimore, Md. Surrogate not added.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-203-01		
Lab Sample ID:	F4526-3	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
Method:	SW846 8310	**Percent Solids:**	91.4
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC5191.D	1	07/28/99	AMA	07/20/99	M:OP1361	M:GLC12
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	579	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	405	54	ug/kg	
50-32-8	Benzo (a) pyrene	746	54	ug/kg	
205-99-2	Benzo (b) fluoranthene	1010	54	ug/kg	
191-24-2	Benzo (g,h,i) perylene	311	54	ug/kg	
207-08-9	Benzo (k) fluoranthene	103	54	ug/kg	
218-01-9	Chrysene	ND	54	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	54	ug/kg	
206-44-0	Fluoranthene	870	54	ug/kg	
86-73-7	Fluorene	169	360	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	771	54	ug/kg	
90-12-0	1-Methylnaphthalene	ND	360	ug/kg	
91-57-6	2-Methylnaphthalene	726	360	ug/kg	
91-20-3	Naphthalene	ND	360	ug/kg	
85-01-8	Phenanthrene	567	360	ug/kg	
129-00-0	Pyrene	792	54	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		20-130%

(a) Samples extracted at Severn-Trent Laboratories, Baltimore, Md. Surrogate not added.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-204-01		
Lab Sample ID:	F4526-4	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
Method:	SW846 8310	**Percent Solids:**	88.1
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC5194.D	1	07/29/99	AMA	07/20/99	M:OP1361	M:GLC12
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	16000	380	ug/kg	
208-96-8	Acenaphthylene	ND	380	ug/kg	
120-12-7	Anthracene	6740	380	ug/kg	
56-55-3	Benzo (a) anthracene	16100	56	ug/kg	
50-32-8	Benzo (a) pyrene	20800	56	ug/kg	
205-99-2	Benzo (b) fluoranthene	15900	56	ug/kg	
191-24-2	Benzo (g,h,i) perylene	6770	56	ug/kg	
207-08-9	Benzo (k) fluoranthene	3500	56	ug/kg	
218-01-9	Chrysene	32900	56	ug/kg	
53-70-3	Dibenz(a,h)anthracene	3620	56	ug/kg	
206-44-0	Fluoranthene [a]	51800	56	ug/kg	*
86-73-7	Fluorene	7010	380	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	12800	56	ug/kg	
90-12-0	1-Methylnaphthalene	ND	380	ug/kg	
91-57-6	2-Methylnaphthalene	14400	380	ug/kg	
91-20-3	Naphthalene	7770	380	ug/kg	
85-01-8	Phenanthrene	17600	380	ug/kg	
129-00-0	Pyrene	31400	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [b]		20-130%

(a) Estimated value, concentration exceeds linear calibration range.
(b) Samples extracted at Severn-Trent Laboratories, Baltimore, Md. Surrogate not added.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-P06-SS-205-01		
Lab Sample ID:	F4526-5	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
Method:	SW846 8310	**Percent Solids:**	67.3
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC5195.D	1	07/29/99	AMA	07/20/99	M:OP1361	M:GLC12
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	500	ug/kg	
208-96-8	Acenaphthylene	ND	500	ug/kg	
120-12-7	Anthracene	ND	500	ug/kg	
56-55-3	Benzo (a) anthracene	119	74	ug/kg	
50-32-8	Benzo (a) pyrene	ND	74	ug/kg	
205-99-2	Benzo (b) fluoranthene	763	74	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	74	ug/kg	
207-08-9	Benzo (k) fluoranthene	122	74	ug/kg	
218-01-9	Chrysene	ND	74	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	74	ug/kg	
206-44-0	Fluoranthene	ND	74	ug/kg	
86-73-7	Fluorene	ND	500	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	74	ug/kg	
90-12-0	1-Methylnaphthalene	ND	500	ug/kg	
91-57-6	2-Methylnaphthalene	ND	500	ug/kg	
91-20-3	Naphthalene	ND	500	ug/kg	
85-01-8	Phenanthrene	ND	500	ug/kg	
129-00-0	Pyrene	168	74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		20-130%

(a) Samples extracted at Severn-Trent Laboratories, Baltimore, Md. Surrogate not added.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-206-01		
Lab Sample ID:	F4526-6	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
Method:	SW846 8310	**Percent Solids:**	58.5
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC5196.D	1	07/29/99	AMA	07/20/99	M:OP1361	M:GLC12
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	570	ug/kg	
208-96-8	Acenaphthylene	ND	570	ug/kg	
120-12-7	Anthracene	ND	570	ug/kg	
56-55-3	Benzo (a) anthracene	ND	86	ug/kg	
50-32-8	Benzo (a) pyrene	993	86	ug/kg	
205-99-2	Benzo (b) fluoranthene	869	86	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	86	ug/kg	
207-08-9	Benzo (k) fluoranthene	159	86	ug/kg	
218-01-9	Chrysene	ND	86	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	86	ug/kg	
206-44-0	Fluoranthene	1070	86	ug/kg	
86-73-7	Fluorene	ND	570	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	86	ug/kg	
90-12-0	1-Methylnaphthalene	ND	570	ug/kg	
91-57-6	2-Methylnaphthalene	ND	570	ug/kg	
91-20-3	Naphthalene	ND	570	ug/kg	
85-01-8	Phenanthrene	ND	570	ug/kg	
129-00-0	Pyrene	1010	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		20-130%

(a) Samples extracted at Severn-Trent Laboratories, Baltimore, Md. Surrogate not added.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method bla
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CEF-P06-SS-207-01		
Lab Sample ID:	F4526-7	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
Method:	SW846 8310	**Percent Solids:**	58.0
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC5197.D	1	07/29/99	AMA	07/20/99	M:OP1361	M:GLC12
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	580	ug/kg	
208-96-8	Acenaphthylene	ND	580	ug/kg	
120-12-7	Anthracene	ND	580	ug/kg	
56-55-3	Benzo (a) anthracene	ND	86	ug/kg	
50-32-8	Benzo (a) pyrene	539	86	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	86	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	86	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	86	ug/kg	
218-01-9	Chrysene	ND	86	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	86	ug/kg	
206-44-0	Fluoranthene	373	86	ug/kg	
86-73-7	Fluorene	ND	580	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	86	ug/kg	
90-12-0	1-Methylnaphthalene	ND	580	ug/kg	
91-57-6	2-Methylnaphthalene	ND	580	ug/kg	
91-20-3	Naphthalene	ND	580	ug/kg	
85-01-8	Phenanthrene	ND	580	ug/kg	
129-00-0	Pyrene	237	86	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% a		20-130%

(a) Samples extracted at Severn-Trent Laboratories, Baltimore, Md. Surrogate not added.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-211-01		
Lab Sample ID:	F4526-11	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
Method:	SW846 8310	**Percent Solids:**	67.5
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC5199.D	1	07/29/99	AMA	07/20/99	M:OP1361	M:GLC12
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	1390	490	ug/kg	
208-96-8	Acenaphthylene	ND	490	ug/kg	
120-12-7	Anthracene	ND	490	ug/kg	
56-55-3	Benzo (a) anthracene	314	74	ug/kg	
50-32-8	Benzo (a) pyrene	909	74	ug/kg	
205-99-2	Benzo (b) fluoranthene	1340	74	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	74	ug/kg	
207-08-9	Benzo (k) fluoranthene	180	74	ug/kg	
218-01-9	Chrysene	ND	74	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	74	ug/kg	
206-44-0	Fluoranthene	1160	74	ug/kg	
86-73-7	Fluorene	ND	490	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	1320	74	ug/kg	
90-12-0	1-Methylnaphthalene	ND	490	ug/kg	
91-57-6	2-Methylnaphthalene	ND	490	ug/kg	
91-20-3	Naphthalene	ND	490	ug/kg	
85-01-8	Phenanthrene	ND	490	ug/kg	
129-00-0	Pyrene	596	74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		20-130%

(a) Samples extracted at Severn-Trent Laboratories, Baltimore, Md. Surrogate not added.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

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

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Report of Analysis

Client Sample ID:	CEF-P06-SS-212-01		
Lab Sample ID:	F4526-12	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
Method:	SW846 8310	**Percent Solids:**	83.3
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC5200.D	1	07/29/99	AMA	07/20/99	M:OP1361	M:GLC12
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	400	ug/kg	
208-96-8	Acenaphthylene	ND	400	ug/kg	
120-12-7	Anthracene	ND	400	ug/kg	
56-55-3	Benzo (a) anthracene	ND	60	ug/kg	
50-32-8	Benzo (a) pyrene	ND	60	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	60	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	60	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	60	ug/kg	
218-01-9	Chrysene	ND	60	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	60	ug/kg	
206-44-0	Fluoranthene	ND	60	ug/kg	
86-73-7	Fluorene	ND	400	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	60	ug/kg	
90-12-0	1-Methylnaphthalene	ND	400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	400	ug/kg	
91-20-3	Naphthalene	ND	400	ug/kg	
85-01-8	Phenanthrene	ND	400	ug/kg	
129-00-0	Pyrene	ND	60	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		20-130%

(a) Samples extracted at Severn-Trent Laboratories, Baltimore, Md. Surrogate not added.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

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

000015

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Report of Analysis

Client Sample ID:	CEF-P06-SS-213-01		
Lab Sample ID:	F4526-13	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
Method:	SW846 8310	**Percent Solids:**	67.6
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC5201.D	1	07/29/99	AMA	07/20/99	M:OP1361	M:GLC12
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	490	ug/kg	
208-96-8	Acenaphthylene	ND	490	ug/kg	
120-12-7	Anthracene	ND	490	ug/kg	
56-55-3	Benzo (a) anthracene	670	74	ug/kg	
50-32-8	Benzo (a) pyrene	848	74	ug/kg	
205-99-2	Benzo (b) fluoranthene	1170	74	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	74	ug/kg	
207-08-9	Benzo (k) fluoranthene	180	74	ug/kg	
218-01-9	Chrysene	ND	74	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	74	ug/kg	
206-44-0	Fluoranthene	1590	74	ug/kg	
86-73-7	Fluorene	ND	490	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	74	ug/kg	
90-12-0	1-Methylnaphthalene	ND	490	ug/kg	
91-57-6	2-Methylnaphthalene	ND	490	ug/kg	
91-20-3	Naphthalene	ND	490	ug/kg	
85-01-8	Phenanthrene	ND	490	ug/kg	
129-00-0	Pyrene	1180	74	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		20-130%

(a) Samples extracted at Severn-Trent Laboratories, Baltimore, Md. Surrogate not added.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates value exceeds calibration range

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

000016

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Report of Analysis

Client Sample ID:	CEF-P06-SS-DU07		
Lab Sample ID:	F4526-14	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
Method:	SW846 8310	**Percent Solids:**	90.3
Project:	NAS Cecil Field-PSC 06		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC5202.D	1	07/29/99	AMA	07/20/99	M:OP1361	M:GLC12
Run #2							

CAS No.	Compound	Result	RDL	Units	Q
83-32-9	Acenaphthene	ND	370	ug/kg	
208-96-8	Acenaphthylene	ND	370	ug/kg	
120-12-7	Anthracene	ND	370	ug/kg	
56-55-3	Benzo (a) anthracene	654	55	ug/kg	
50-32-8	Benzo (a) pyrene	728	55	ug/kg	
205-99-2	Benzo (b) fluoranthene	1360	55	ug/kg	
191-24-2	Benzo (g,h,i) perylene	431	55	ug/kg	
207-08-9	Benzo (k) fluoranthene	175	55	ug/kg	
218-01-9	Chrysene	ND	55	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	55	ug/kg	
206-44-0	Fluoranthene	1690	55	ug/kg	
86-73-7	Fluorene	ND	370	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	875	55	ug/kg	
90-12-0	1-Methylnaphthalene	ND	370	ug/kg	
91-57-6	2-Methylnaphthalene	ND	370	ug/kg	
91-20-3	Naphthalene	ND	370	ug/kg	
85-01-8	Phenanthrene	ND	370	ug/kg	
129-00-0	Pyrene	1090	55	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		20-130%

(a) Samples extracted at Severn-Trent Laboratories, Baltimore, Md. Surrogate not added.

ND = Not detected
RDL = Reported Detection Limit
E = Indicates 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-P06-SS-208-01		
Lab Sample ID:	F4526-8	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
		Percent Solids:	91.8
Project:	NAS Cecil Field-PSC 06		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.50 B	0.89	mg/kg	1	07/20/99	07/21/99	JK	SW846 6010A

RDL = Reported Detection Limit

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Report of Analysis

Client Sample ID:	CEF-P06-SS-209-01		
Lab Sample ID:	F4526-9	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
		Percent Solids:	83.3
Project:	NAS Cecil Field-PSC 06		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.62 B	1.0	mg/kg	1	07/20/99	07/21/99	JK	SW846 6010A

RDL = Reported Detection Limit

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Report of Analysis

Client Sample ID:	CEF-P06-SS-210-01		
Lab Sample ID:	F4526-10	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
		Percent Solids:	93.6
Project:	NAS Cecil Field-PSC 06		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.75 B	0.95	mg/kg	1	07/20/99	07/21/99	JK	SW846 6010A

RDL = Reported Detection Limit

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Report of Analysis

Client Sample ID:	CEF-P06-SS-DU08		
Lab Sample ID:	F4526-15	**Date Sampled:**	07/14/99
Matrix:	SO - Soil	**Date Received:**	07/16/99
		Percent Solids:	88.6
Project:	NAS Cecil Field-PSC 06		

Metals Analysis

Analyte	Result	RDL	Units	DF	Prep	Analyzed By	Method
Arsenic	~~0.35 B~~ 0.38 U	1.0	mg/kg	1	07/20/99	07/21/99 JK	SW846 6010A

8-10-99 JAS

RDL = Reported Detection Limit

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APPENDIX C

FOOD CHAIN MODELING

APPENDIX C
FOOD CHAIN MODELING

Contaminant exposure via the food chain was modeled to investigate potential risks to representative receptors at PSC 6. Toxicity reference values (TRVs), which are contaminant doses associated with adverse effects on growth, survival, and reproduction, were obtained for comparison to doses that the receptors may receive in the environment. TRVs were preferentially selected that represent a threshold for sublethal effects, such as impairment of reproduction or growth. Since toxicity data for the specific receptors chosen herein were usually not available, toxicity data from laboratory species were extrapolated to receptor species. The TRVs were preferentially obtained from Oak Ridge National Laboratory (ORNL) wildlife toxicity data (Sample *et al.*, 1996) and are presented in Table C-1.

Following discussions with Region IV U. S. EPA (Wellman, 2000), VOCs and SVOCs were not included in food chain modeling, since these chemicals generally do not accumulate in animal tissue or biomagnify in the food web.

Representative Receptors

Representative ecological receptors used in the food chain model for PSC 6 consisted of the short-tailed shrew (*Blarina carolinensis*), cotton mouse (*Peromyscus gossypinus*), red fox (*Vulpes vulpes*), American robin (*Turdus migratorius*), American woodcock (*Scolopax minor*), and red-tailed hawk (*Buteo jamaicensis*), all of which are found at NAS Cecil Field and could forage at PSC 6. Information regarding these representative receptors is presented below and in Table C-2.

Short-tailed shrew

The short-tailed shrew was selected as a representative insectivorous small mammal. It can be found in forested areas, brushy areas, and near marshes. It feeds primarily on insects but will prey on earthworms, snails, centipedes, slugs, and small vertebrates (Burt and Grossenheider, 1980). The short-tailed shrew has a voracious appetite for its body size, and as a result, may receive high doses of contaminants relative to other small mammals. Its home range is approximately 0.5 to 2.4 acres (Cothran *et al.*, 1991; U.S. EPA, 1993), allowing it to potentially spend all or much of its time at PSC 6.

Cotton mouse

The cotton mouse was chosen as a representative herbivorous small mammal. It is frequently associated with forested areas and moist habitats along the wetland/upland interface (Burt and

Grossenheider, 1980). It is common in the Southeast and feeds on grasses, sedges, seeds, fruits, grains, and bark. Because its home range is usually less than 1 acre (U.S. EPA, 1993), it could reside permanently within PSC 6.

Red fox

The red fox was chosen as a representative mammalian predator. The red fox is common in Florida and the entire eastern United States. Its principal food items are small mammals (especially mice and voles) but it also preys on insects and birds. The red fox utilizes many habitat types, but prefers deciduous woodlands and edge areas. Home ranges vary from 50 to over 3,000 acres, but most common literature values are within a range of 140 to 2,100 acres (U.S. EPA, 1993). Thus, although the red fox is known to exist at NAS Cecil Field, PSC 6 would comprise only a small portion of its home range.

American woodcock

The American woodcock was selected as a representative vermivorous (earthworm-eating) avian species. It also consumes insects and other soil invertebrates. The species is common in Florida and the entire eastern United States. The woodcock prefers moist woodlands and thickets. Its home range varies from approximately 8 to 185 acres (U.S. EPA, 1993).

American robin

The American robin was chosen as a representative omnivorous bird. Common winter food items include seeds and fruit. Insects and invertebrates, especially earthworms, are eaten more frequently in the spring and summer. The robin is common in Florida and the entire eastern United States in a variety of habitats. During the non-breeding seasons, robins in Florida are joined by migratory individuals from the northern United States, roaming over large areas and usually forming communal roosts within 1 to 2 miles of foraging areas. The home range during breeding season is approximately 0.5 to 2.0 acres (U.S. EPA, 1993). Therefore, a robin might forage exclusively at PSC 6 only during nesting.

Red-tailed hawk

The red-tailed hawk was selected as a representative avian carnivore. This hawk is common in Florida and the entire eastern United States, and it forages in a variety of habitats. The red-tailed hawk feeds primarily on small mammals but will also consume small birds, lizards, snakes, and insects (U.S. EPA, 1993). Breeding populations in Florida are non-migratory. The home range size is highly variable, depending on the available habitat. Mean home ranges varied from 150 to over 4,300 acres in several studies summarized by U.S. EPA (1993). The home range shown in Table C-2 (940 to 2,440 acres) represents the data from habitats most similar to those at Cecil

Field (U.S. EPA, 1993). The habitat at PSC 6 would constitute a minor portion of the hawk's foraging area.

Exposure Estimate And Risk Calculation

Chemicals whose maximum concentrations did not exceed ecological screening values (ESVs) were dropped from further consideration, while those that equaled or exceeded ESVs were retained as ecological chemicals of potential concern (COPCs). The following equation was then used to estimate contaminant intake from ingestion for representative wildlife species for pesticides and metals that were COPCs:

$$PD\ ingestion = [(C_{soil} * FI * SA * F) + (C_{food} * F * FA * FI)]/WR$$

where:

	PD	=	predicted dose from the ingestion food items and the incidental ingestion of soil (mg/kg/day)
	C_{soil}	=	concentration in soil (mg/kg)
	FI	=	fractional intake (portion of home range that overlaps affected area; assumed to be 100%)
	SA	=	portion of diet consisting of soil
	F	=	food consumed (kg/day)
	C_{food}	=	contaminant concentration in food (mg/kg)
	FA	=	portion of diet consisting of prey or vegetation
	WR	=	weight of receptor (kg)

Exposure parameters (e.g., body weight, ingestion rate) for the representative receptors are shown in Table C-2. Most exposure parameters were obtained from the Wildlife Exposure Factors Handbook: Volumes I and II (U. S. EPA, 1993). Wet weight food ingestion rates shown in Table C-2 were calculated as follows:

- Shrew: 0.541 grams food/gram body weight/day (g/g bw/day) (U.S. EPA, 1993)
- Cotton mouse: 8.6 g/day; calculated using rodent equation for food ingestion (g/day): 0.621 x $bw^{0.564}$ (U.S. EPA, 1993); converted to wet weight assuming 50 percent water content in food items (vegetation)
- Red fox: 0.11 g/g bw/day (U.S. EPA, 1993)
- Woodcock: 0.77 g/g bw/day (U.S. EPA, 1993)
- Robin: 0.89 g/g bw/day (U.S. EPA, 1993)
- Hawk: 0.112 g/g bw/day (U.S. EPA, 1993)

The contaminant concentration in food (C_{food} in the equation shown above) was calculated using bioaccumulation factors (BAFs) from published sources (Table C-3). Values of 1.0 were assumed where BAFs were not available.

Surface soil data were used in the food chain modeling to calculate doses to the shrew, mouse, robin, woodcock, fox, and hawk as follows. Chemical concentrations in terrestrial invertebrates (food items of the shrew, robin, and woodcock) were estimated by multiplying each chemical's surface soil concentration by its associated soil-to-invertebrate BAF. Chemical concentrations in vegetation (food items of the mouse and robin) were estimated by multiplying each chemical's surface soil concentration by its associated soil-to-plant BAF. The resulting estimated concentrations in invertebrates and plants were multiplied by the associated food-to-mammal BAF to derive estimated concentrations in the shrew and mouse, respectively. The estimated mammal concentrations were then used to derive an estimated dose to the hawk and fox. Prey items of the hawk and fox were assumed to consist of equal amounts of shrews and mice. Food of the robin was assumed to consist of 60 percent vegetation and 35 percent invertebrates (Table C-2). Incidental ingestion of surface soil was also included in the dose equations for the shrew, mouse, robin, woodcock, and fox. Incidental ingestion of surface soil is negligible for birds of prey (Sample and Suter, 1994) and therefore, was not included in the dose equations for the hawk.

A hazard quotient (HQ) is presented for each chemical assessed in the food chain model and is defined as the ratio of the modeled dose to the TRV.

TABLE C-1

TOXICITY REFERENCE VALUES (TRVs)
PSC 6 – LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Ecological Chemical of Potential Concern	Mammal		Avian		NOAEL Source	LOAEL Source
	NOAEL TRV (mg/kg/day)	LOAEL TRV (mg/kg/day)	NOAEL TRV (mg/kg/day)	LOAEL TRV (mg/kg/day)		
PESTICIDES						
4,4'-DDD[a]	0.8	4.0	0.0028	0.028	Sample *et al.*, 1996	Sample *et al.*, 1996
4,4'-DDE[a]	0.8	4.0	0.0028	0.028	Sample *et al.*, 1996	Sample *et al.*, 1996
4,4'-DDT	0.8	4.0	0.0028	0.028	Sample *et al.*, 1996	Sample *et al.*, 1996
Dieldrin	0.02	0.2	0.077	0.77	Sample *et al.*, 1996	Sample *et al.*, 1996
INORGANICS						
Aluminum	1.93	19.3	109.7	1097	Sample *et al.*, 1996	Sample *et al.*, 1996
Chromium	3.28	32.8	1	5	Sample *et al.*, 1996	Mammal: NOAEL x 10 Bird: Sample *et al.*, 1996
Iron	50	500	100	1000	ERT, 1997	ERT, 1997
Vanadium	0.21	2.1	11.4	114	Sample *et al.*, 1996	Mammal: Sample *et al.*, 1996 Bird: NOAEL x 10
Zinc	160	320	14.5	131	Sample *et al.*, 1996	Sample *et al.*, 1996

NOAEL = No-observable-adverse-effects level
LOAEL = Lowest-observable-adverse-effects level
ERT = U. S. EPA Environmental Response Team
a 4,4'-DDT used as a surrogate

TABLE C-2

EXPOSURE PARAMETERS FOR REPRESENTATIVE ECOLOGICAL RECEPTORS
PSC 6 – LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Receptor	Representative Group	Body Weight[1] (grams)	Water Ingestion[1] (grams/day)	Food Ingestion[1,2] (grams/day)	Assumed Diet for Exposure Assessment[1]	Home Range[1] (acres)
Short-tailed shrew (*Blarina carolinensis*)	Insectivorous mammal	9.7[3]	NA	5.2	90% invertebrates 10% soil	0.96[1] to 2.4[3]
Cotton mouse (*Peromyscus gossypnius*)	Herbivorous Mammal	31[4]	NA	8.6	98% vegetation 2% soil[5]	0.05 to 0.3[5]
Red fox (*Vulpes vulpes*)	Predatory Mammal	4530	NA	498	97.2% prey 2.8% soil	140 to 2100
American robin (*Turdus migratorius*)	Omnivorous Bird	77.3	NA	69	35% invertebrates 60% vegetation 5% soil[6]	0.5 to 2.1 (nesting season)
American woodcock (*Scolopax minor*)	Vermivorous Bird	197	NA	152	89.6% invertebrates 10.4% soil	8 to 185
Red-tailed hawk (*Buteo jamaicensis*)	Carnivorous Bird	1126	NA	126	100% prey soil, sediment: none[6]	940 to 2440

NA = Not applicable. This assessment is based only on the analyses of surface soil samples.

1 Exposure parameters are from U. S. EPA (1993) unless otherwise noted.
2 Food ingestion includes intended food items and incidentally ingested soil or sediment. For example, a shrew would be expected to consume 4.7 g invertebrates plus 0.5 g soil per day.
3 Cothran, *et al.*, 1991.
4 Lowery, 1974.
5 Based on deer mouse (*Peromyscus maniculatus*).
6 Sample and Suter, 1994

TABLE C-3

BIOACCUMULATION FACTORS
PSC 6 – LAKE FRETWELL RUBBLE DISPOSAL AREA
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Chemical	Bioaccumulation Factor[a]					
	Terrestrial Invertebrate	Invertebrate Source	Terrestrial Plant	Plant Source	Mammal	Mammal Source
Pesticides						
4,4'-DDD	3.3	see footnote b	1.00E-02	see footnote c	1.20E+00	Forsyth & Petrie, 1984
4,4'-DDE	1.70E+00	see footnote d	1.00E-02	see footnote c	1.20E+00	Forsyth & Petrie, 1984
4,4'-DDT	5.70E-01	see footnote e	1.00E-02	see footnote c	1.20E+00	Forsyth & Petrie, 1984
Dieldrin	6.7[f]	Korschgen, 1970	0.03[g]	(Lichtenstein and Schultz, 1965)	0.1[h]	Korschgen, 1970
Metals						
Aluminum	0.053	Sample *et al.*, 1998	0.0008	Baes *et al.*, 1984	0.075	Baes *et al.*, 1984
Chromium	0.306	Sample *et al.*, 1998	0.0015	Baes *et al.*, 1984	0.28	Baes *et al.*, 1984
Iron	0.038	Sample *et al.*, 1998	NA	-	NA	-
Vanadium	0.039	Sample *et al.*, 1998	0.0011	Baes *et al.*, 1984	0.13	Baes *et al.*, 1984
Zinc	3.201	Sample *et al.*, 1998	0.366	ORNL, 1998	2.1	Baes *et al.*, 1984

NA Bioaccumulation factor (BAF) not available.

a BAFs consist of concentrations in tissue/concentrations in soil for invertebrates and plants, and concentrations in tissue/concentrations in food for mammals.

b Geometric mean of 4,4`-DDD (Barker, 1958, Davis, 1968, Davis and Harrison, 1966; Cramp and Olney, 1967; Collett and Harrison, 1968; Wheatley and Hardman, 1968; Hunt and Sacho, 1969; and Gish, 1970).

c Geometric mean of 4,4`-DDT, 4,4`-DDD, and 4,4`-DDE BAFs (fresh wt/dry wt) reported for roots (carrot, potato, sugar beet), grains (corn, oats), and legumes (alfalfa) derived from U.S. EPA (1985b) converted from dry weight to wet weight per values provided by Suter (1993).

d Geometric mean of 4,4`-DDE (Davis, 1968; Davis and Harrison, 1966; Cramp and Olney, 1967; Collett and Harrison, 1968; Hunt and Sacho, 1969; and Gish, 1970).

e Geometric mean of 4,4`-DDT (Davis, 1968; Davis and Harrison, 1966; Wheatley and Hardman, 1968; Bailey et al, 1970; Cramp and Olney, 1967; Beyer and Gish, 1980).

f Average of four values for aldrin and dieldrin concentrations in soil versus concentrations in earthworms (wet weight).

g Based on nomogram of BAFs developed from aldrin and dieldrin concentrations in soil versus concentrations in crops; converted from dry weight to wet weight plant concentration assuming 70% water content.

h Based on a nomogram of BAFs developed from aldrin and dieldrin concentrations in invertebrates versus animals feeding on invertebrates.

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