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NAS CECIL FIELD
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SAMPLING AND ANALYSIS REPORT FACILITY 817 BASE REALIGNMENT AND CLOSURE ZONE D FLIGHTLINE INDUSTRIAL AREA NAS CECIL FIELD FL

9/1/1998

HARDING LAWSON ASSOCIATES

150392

SAMPLING AND ANALYSIS REPORT

FACILITY 817

BASE REALIGNMENT AND CLOSURE

ZONE D, FLIGHTLINE INDUSTRIAL AREA

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Unit Identification Code: N60200

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Prepared by:

Harding Lawson Associates
2590 Executive Center Circle, East
Tallahassee, Florida 32301

Prepared for:

Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29419

David Porter, Code 18B2, BRAC Environmental Coordinator

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Base Realignment and Closure
Zone D, Flightline Industrial Area
Naval Air Station Cecil Field, Jacksonville, Florida

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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
EBS	environmental baseline survey
ELCR	excess lifetime cancer risk
FDEP	Florida Department of Environmental Protection
GCTL	groundwater cleanup target level
HLA	Harding Lawson Associates
HI	hazard index
HQ	hazard quotient
mg/kg	milligrams per kilogram
$\mu g/\ell$	micrograms per liter
NAS	Naval Air Station
PCB	polychlorinated biphenyl
PRE	preliminary risk evaluation
RBC	risk-based concentration
SAO	sampling and analysis outline
SCTL	soil cleanup target level
SVOC	semivolatile organic compound
TRPH	total recoverable petroleum hydrocarbons
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

1.0 INTRODUCTION

Harding Lawson Associates (HLA), under contract to Southern Division, Naval Facilities Engineering Command, has completed the Phase II Sampling and Analysis program for Facility 817 at Naval Air Station (NAS) Cecil Field. This report summarizes the related field operations, results, conclusions, and recommendations of the Phase II investigation.

Facility 817 is referred to as a Motor Generator Building in the NAS Cecil Field Environmental Baseline Survey (EBS) (ABB Environmental Services, Inc. [ABB-ES], 1994a). Facility 817 is located along the north-south flightline, south of Hangar 825 (Figure 1). Facility 817 houses electrical equipment necessary to convert the electrical frequency for Hangar 825 from 60 Hertz to 400 Hertz.

Facility 817 was color-coded Grey in the EBS due to a nearby underground storage tank (UST). The UST, which holds waste-oil overflow from an adjacent oil-water separator, is associated with a nearby washrack and lift station (Facility 825LS). The UST is addressed in the Sampling and Analysis Outline (SAO) for Facility 825 LS, and the Tank Management Plan (ABB-ES, 1997). Stressed vegetation observed north and east of Building 817 and beneath a mop rack were identified as additional environmental concerns for this facility during a site walkover conducted in December 1994.

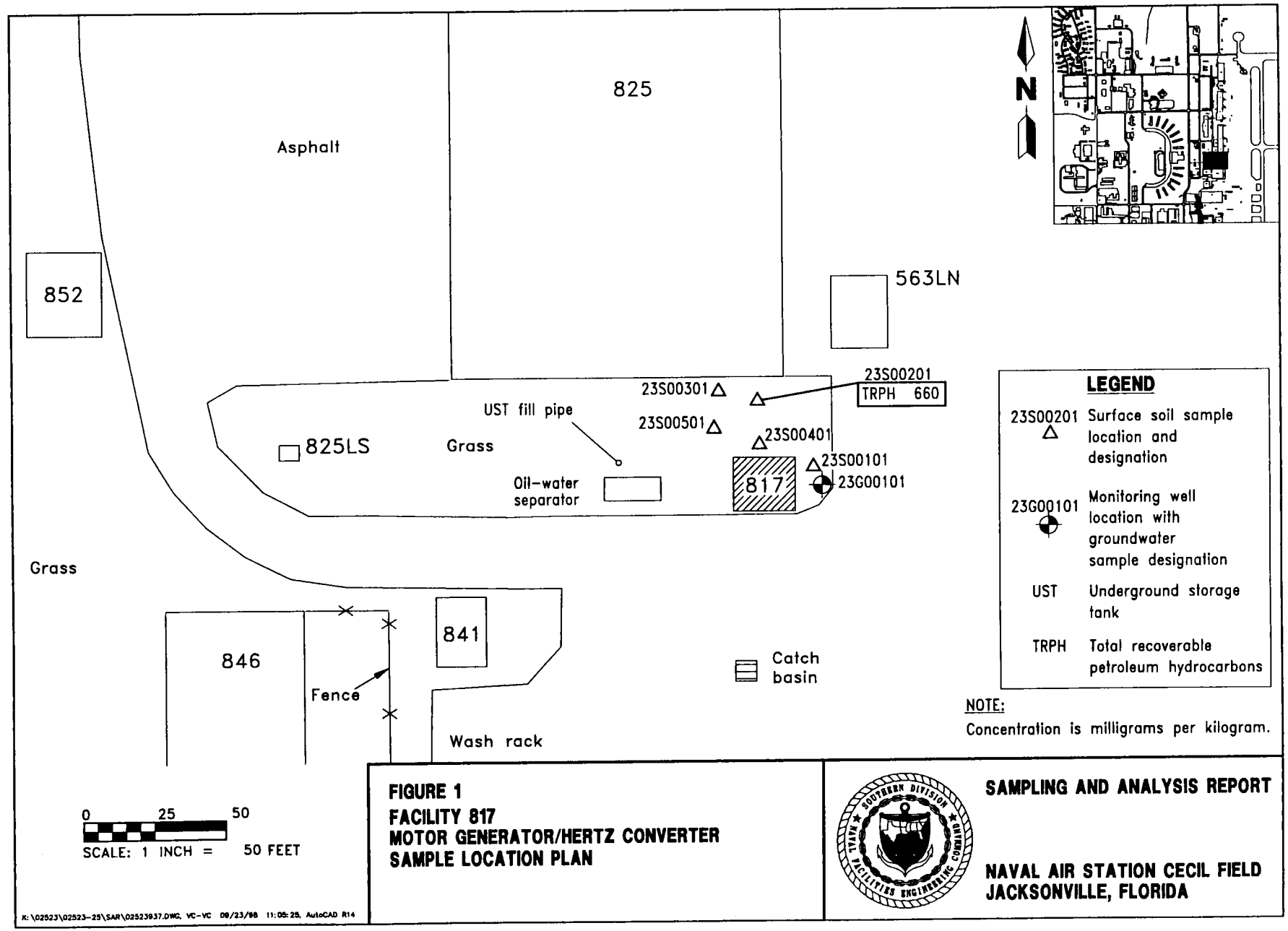
An SAO for assessment of surface soil and shallow groundwater at Facility 817 was prepared by HLA (then ABB-ES) and approved by the Base Realignment and Closure cleanup team (ABB-ES, 1995a). The results of the Phase II Sampling and Analysis program are discussed below.

2.0 PHASE II INVESTIGATION

This Phase II investigation included the installation of one shallow groundwater monitoring well, and collection and analysis of one groundwater sample and five surface soil samples. Field activities were undertaken in general conformance with the Project Operations Plan (ABB-ES, 1994b).

The groundwater monitoring well was installed near the southeast corner of Facility 817. The location selected is downgradient of the areas of stressed vegetation. The groundwater flow direction in this area is likely to be east-southeast, based on the groundwater flow model produced for NAS Cecil Field by the U.S. Geological Survey. The well was completed at a depth of 19 feet below land surface. Surface soil samples were collected from the areas of stressed vegetation.

The groundwater and surface soil samples were collected and analyzed for the full Contract Laboratory Program suite of target compound list organics and target analyte list inorganics. A site plan indicating the location of the monitoring well and surface soil samples is presented on Figure 1. The soil boring log is included in Appendix A.


825
Asphalt
852
563LN
23S00201
TRPH 660
23S00301
UST fill pipe
23S00501
23S00401
825LS
Grass
23S00101
23G00101
Oil-water separator
817
Grass
841
846
Fence
Catch basin
Wash rack
N
0 25 50
SCALE: 1 INCH = 50 FEET
LEGEND
23S00201 Surface soil sample location and designation
23G00101 Monitoring well location with groundwater sample designation
UST Underground storage tank
TRPH Total recoverable petroleum hydrocarbons
NOTE:
Concentration is milligrams per kilogram.
FIGURE 1
FACILITY 817
MOTOR GENERATOR/HERTZ CONVERTER
SAMPLE LOCATION PLAN
SAMPLING AND ANALYSIS REPORT
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
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3.0 PRELIMINARY RISK EVALUATION

A preliminary risk evaluation (PRE) was conducted to assess potential risks to human and ecological receptors posed by contaminants in groundwater and surface soil. Primary exposure pathways were evaluated to determine those pathways that potentially contribute to human health and ecological risks. The evaluation was conducted in general conformance with methodology provided in the U.S. Environmental Protection Agency (USEPA) Region IV memorandum entitled "Amended Guidance on PREs for the Purpose of Reaching a Finding of Suitability to Lease (FOSL)" (USEPA, 1994), USEPA Region IV bulletins on ecological risk assessment (USEPA, 1995), and minutes of meetings with the USEPA and the Florida Department of Environmental Protection (FDEP) concerning PREs (ABB-ES, 1995b). Site background information and rationale for sample collection and analysis are detailed in the EBS Report (ABB-ES, 1994a) and the SAO (ABB-ES, 1995a).

Inorganic analytes were compared to NAS Cecil Field screening criteria for inorganics established by the NAS Cecil Field partnering team. The NAS Cecil Field screening criteria were determined by using the nonparametric upper-outside value cutoffs as described in *Understanding Robust and Exploratory Data Analysis* (Hoaglin et al., 1983). These screening values were developed from data collected throughout NAS Cecil Field. No risk evaluation is conducted for inorganic analytes detected below NAS Cecil Field screening criteria for inorganics.

3.1 PUBLIC HEALTH PRELIMINARY RISK EVALUATION. All detected analytes were compared to readily available risk-based screening values to assess the likelihood of adverse human health effects associated with potential exposure to surface soil or groundwater. Risk-based screening values were obtained from USEPA Region III Risk-Based Concentrations (RBCs) (USEPA, 1998), FDEP Soil and Groundwater Cleanup Target Levels (SCTLs and GCTLs) (Florida Administrative Code, 1998). Most screening values published in the references listed above are based on toxicity constants and standard human exposure scenarios and correspond to fixed levels of risk. The designated level of risk for noncarcinogenic chemicals is based on a hazard quotient (HQ) of 1. The level of risk for carcinogenic chemicals is based on an excess lifetime cancer risk (ELCR) of 1×10^{-6}. Cancer and noncancer risks associated with industrial and residential land use are estimated by dividing the maximum detected analyte concentration by the corresponding USEPA Region III RBC value at the designated level of risk (HQ of 1 or ELCR of 1×10^{-6}). For noncarcinogens, the HQs are summed to determine the cumulative noncancer risk or hazard index (HI).

3.1.1 Groundwater Eleven inorganic analytes were detected in the groundwater sample collected in the study area. No inorganic analytes were detected at concentrations in excess of the NAS Cecil Field screening criteria for inorganics. Toluene was detected at a concentration of 1 microgram per liter ($\mu g/\ell$), which is less than the GCTL of 40 $\mu g/\ell$. Toluene was the only organic compound detected in groundwater. Concentrations of detected analytes in groundwater are compared with RBCs for tap water and GCTLs and, where applicable, with NAS Cecil Field Inorganic Background Data Set (see Appendix A). No compounds or analytes were detected at concentrations in excess of background and GCTLs. Therefore, no HI or ELCR was calculated in association with a potential groundwater exposure scenario.

3.1.2 Surface Soil Sixteen inorganic analytes, 1 volatile organic compound (VOC), 13 semivolatile organic compounds (SVOCs), and 10 pesticide and polychlorinated biphenyl (PCB) compounds were detected in surface soil samples collected and analyzed for Facility 817.

Aluminum, calcium, chromium, and magnesium were detected at concentrations in excess of the NAS Cecil Field inorganic background screening values. Calcium and magnesium are naturally occurring elements in soils at NAS Cecil Field and are also essential nutrients. There are no RBCs or SCTLs for these analytes. The detected concentrations of aluminum and chromium do not exceed FDEP SCTLs. No VOCs, SVOCs, or pesticide/PCB compounds were detected at concentrations in excess of FDEP SCTLs. However, the concentration of total recoverable petroleum hydrocarbons (TRPH) at sample location 23S00201 was 660 milligrams per kilogram (mg/kg), which exceeds the FDEP SCTL for a residential exposure scenario.

3.2 ECOLOGICAL PRELIMINARY RISK EVALUATION. Potential exposure pathways and ecological habitat associated with Facility 817 were characterized by HLA ecological risk assessors in June 1996. Facility 817 is located within a developed area and is surrounded by maintained grass.

Ecological receptors that might occasionally use the study area are likely limited to terrestrial species that are tolerant to human and industrial activity. Soil invertebrates (such as the earthworm) are likely present in the maintained grassy areas, which are subject to regular mowing. Protected species were not observed and are unlikely to utilize the limited habitat at Facility 817.

Pathways of potential contaminant exposure for wildlife receptors include direct contact, incidental ingestion of surface soil, and limited terrestrial food-web model exposure to contaminants in surface soil that may bioaccumulate. Pathways for soil invertebrates include direct contact and incidental ingestion of surface soil. Pathways for terrestrial plants include direct contact with surface soil. Due to the limited extent and significance of the habitat associated with the study area, no further ecological risk evaluation for surface soil was conducted.

No exposure pathway from groundwater to surface water was identified in the study area. In addition, no analytes were detected at concentrations in excess of background data set values for groundwater; therefore, no further ecological risk evaluation for groundwater was conducted.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Numerous organic compounds, pesticide compounds, and inorganic analytes were detected in soil and groundwater samples collected in the study area. TRPH in surface soil was the only analyte detected at a concentration in excess of FDEP SCTL.

The detected concentration of TRPH of 600 mg/kg does not exceed the FDEP SCTL based on worker industrial exposure assumptions (2500 mg/kg). Because it is unlikely that a residential reuse scenario would apply to Facility 817 in the foreseeable future, a soil removal action to reduce the TRPH concentration below the residential cleanup level is not recommended.

Elevated concentrations of TRPH have been detected in surface soil at Facility 817. The contaminants detected in surface soil at Facility 817 do not represent a hazard to human health or the environment under the current and foreseeable industrial land-use scenario. Therefore, based upon the findings of this evaluation, the color-code for Facility 817 should be reclassified to 3/Light Green. No remedial action or further evaluation is recommended.

Although Facility 817 is not within the perimeter of groundwater contaminant plumes associated with Day Tank 1 and Site 16, groundwater-usage restrictions should be developed to avoid influencing the spatial extent of the nearby contaminant plumes. Appropriate site operation and management procedures should be undertaken in order to ensure that current and future site activities do not result in release of hazardous substances to the environment. A full disclosure of all environmental conditions and land-use restrictions should be incorporated into any documentation prepared in support of a sale or lease of real property including Facility 817.

REFERENCES

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USEPA. 1998. *Risk-Based Concentration Table*. Region III. Philadelphia, Pennsylvania.

APPENDIX A

SOIL BORING LOG AND PRELIMINARY RISK EVALUATION TABLE

TITLE: NAS Cecil Field BRAC	**LOG of WELL:** CEF-817-1S		**BORING NO.** CEF-817-1S
CLIENT: SOUTHDIVNAVFACENGCOM			**PROJECT NO:** 08520-85
CONTRACTOR: Alliance Environmental, Inc.		**DATE STARTED:** 12-13-95	**COMPLTD:** 12-13-95
METHOD: Auger	**CASE SIZE:** 2 in.	**SCREEN INT.:** 8 - 18 ft.	**PROTECTION LEVEL:** D
TOC ELEV.: FT.	**MONITOR INST.:** PID	**TOT DPTH:** 19.0FT.	**DPTH TO ▽** 9.5 FT.
LOGGED BY: R. Holloway	**WELL DEVELOPMENT DATE:**		**SITE:** 23 - 817 Hertz Convert.

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
1				9	SILTY SAND (SM): 100%, dark grayish brown, quartz, fine- to very fine-grained, subrounded to subangular, well sorted.		SM	posthole	
2									
3				12				posthole	
4									
5				16				3,5,6,8	
6									
7				17				3,18,48,41	
8									
9				18				30,38,39,31	
10									
11									
12									
13									
14									
15									
16									
17									
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21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

ABB ENVIRONMENTAL SERVICES, INC.

Preliminary Human Health Risk Evaluation Table for Analytes Detected in Groundwater
Facility 817, Naval Air Station Cecil Field

Analyte[1]	23G00101	Screening Values BKGRD	GCTL	RBC(T)	Calculated Risk Values[2] ELCR	HQ
Volatile Organic Compounds						
Toluene	1		40	750 n		
Inorganic Analytes						
*Aluminum	754	13100	200	37000 n		
Barium	13.3	88.2	2000	2600 n		
Calcium	12600	81100				
*Iron	1450	7760	300	11000 n		
Magnesium	38.2	10000				
*Manganese	52.9	96.2	50	840 n		
Potassium	1090	4330				
Sodium	2180	16500	160000			
Vanadium	6	20.2	49	260 n		
Zinc	7.4	76.8	5000	11000 n		
Cyanide	4.1	22	200	730 n		

Notes:

[1] All detected analytes are reported. Concentrations and screening values are expressed in ug/l

[2] ELCR and HQ are only calculated for analytes detected at concentrations in excess of BKGRD and GWCTL

* = Background screening criteria or GCTLs have been exceeded

BKGRD = NAS Cecil Field Inorganic Background Data Set

GCTL = Groundwater Cleanup Target Levels, FDEP, Chapter 62-785, Florida Administrative Code

RBC(T) = Risk-based Concentration (Tap Water), USEPA Region III, April 1998

n = non-carcinogenic risk

ELCR = calculated excess lifetime cancer risk, based on RBC(T) values.

(ELCR = maximum detected concentration/RBC(T) * 1E-06)

HQ = calculated Hazard Quotient for non-carcinogenic analytes

Preliminary Human Health Risk Evaluation Table for Analytes Detected in Surface Soil
Facility 817, Naval Air Station Cecil Field

Analyte[1]	Samples 23S00101	23S00201	23S00301	23S00401	23S00501	Screening Values BKGRD	SCTL	RBC(R)	Calculated Risk Values[2] ELCR	HQ
Volatile Organic Compounds										
Acetone					0.029		770	7800 n		
Semivolatile Organic Compou										
Benzo (a) anthracene	0.05			0.072			1.4	0.88 c		
*Benzo (a) pyrene	0.085			0.094			0.1	0.088 c		
Benzo (b) fluoranthene	0.14			0.14			1.4	0.88 c		
Benzo (g,h,i) perylene	0.12			0.061			2300			
Benzo (k) fluoranthene	0.056			0.054			15	8.8 c		
Butylbenzylphthalate	0.12			0.096			220	16000 n		
Chrysene	0.085			0.093			140	88 c		
Dibenzo (a,h) anthracene	0.018						0.1	0.088 c		
Fluoranthene	0.1			0.15			2800	3100 n		
Indeno (1,2,3-cd) pyrene	0.098			0.06			1.5	0.88 c		
Phenanthrene	0.026			0.056			1900			
Pyrene	0.069			0.09			2200	2300 n		
bis(2-Ethylhexyl) phthalate	0.16	0.069	0.046	0.086	0.055		75	46 c		
Pesticides/PCBs										
4,4-DDD		0.0072					4.5	2.7 c		
Aldrin	0.0009			0.00025	0.00054		0.06	0.038 c		
*Aroclor-1260		0.14					0.6	0.083 c		
Dieldrin	0.0067			0.0017			0.07	0.04 c		
Endrin	0.00011	0.017	0.00063				21	23 n		
*Heptachlor epoxide	0.00028	0.072	0.0034				0.1	0.07 c		
Methoxychlor	0.006						380	390 n		
alpha-Chlordane	0.00031	0.087	0.0056				3	0.49 c		
beta-BHC		0.0018	0.0011				0.6	0.35 c		
gamma-Chlordane	0.00082	0.65	0.05	0.0005	0.0006		3	1.8 c		
Inorganic Analytes										
*Aluminum	4580	2490	3370	1410	3020	4432.5	72000	78000 n		
Barium	11.5	4.7	6.8	5.2	5.8	14.4	105	5500 n		
Cadmium				1.1		1.715	75	39 n		
*Calcium	10900	28900	62400	7100	55700	9.44				
*Chromium	6.8	9	10.7	9.9	8.6	7.75	290	390 n		
Cobalt	0.31	0.29	0.31		0.29	3.11	4700	4700 n		
Copper	3.4	5.4	2.1	3	2	5.965	390	3100 n		
Iron	529	821	698	568	565	1486	23000	23000 n		
Lead	15.6	8.3	4.2	15.2	18.8	196.9	500			
*Magnesium	166	210	437	285	362	328.65				
Manganese	5.3	9.2	11.6	7.9	9.7	21.95	1600	1600 n		
Nickel	2.3	1.4	1.6	1.3	1.5	3.89	105	1600 n		
Potassium	64.1	35.7	39.1	22.6	43.6	101.8				
Sodium	150	176	153	127	101	343				
Vanadium	3.3	3.2	3.9	2.1	3.2	6.3	15	550 n		
Zinc	19.1	22.8	4.7	17.3	4.1	36.5	23000	23000 n		
General Chemistry										
*Total petroleum hydrocarbons	70	660	36	28	23		350			

Notes:

[1] All detected analytes are reported. Concentrations and screening values are expressed in mg/kg

[2] ELCR and HQ are only calculated for analytes detected at concentrations in excess of BKGRD and SCTL

* = Background screening criteria or SCTLs have been exceeded

BKGRD = NAS Cecil Field Inorganic Background Data Set

SCTL = Soil Cleanup Target Level, Chapter 62-785, Florida Administrative Code

RBC(R) = Risk-based Concentration (Residential), USEPA Region III, April 1998

c = carcinogenic risk

n = non-carcinogenic risk

ELCR = calculated excess lifetime cancer risk, based on RBC(R) values. (ELCR = detected concentration/RBC(R) * 1 E-06)

HQ = calculated Hazard Quotient for non-carcinogenic analytes (HQ = detected concentration/RBC(R))

APPENDIX B

LABORATORY ANALYTICAL DATA

NAS CECIL FIELD -- FACILITY 817
SURFACE SOIL -- VOLATILES -- REPORT REQUEST NO. 10159

Lab Sample Number:	C2TR4				C2TR5				C2TR6				C2TR7			
Site	CECILBRAC2				CECILBRAC2				CECILBRAC2				CECILBRAC2			
Locator	23S00101				23S00101D				23S00201				23S00301			
Collect Date:	01-FEB-96				01-FEB-96				01-FEB-96				01-FEB-96			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW																
Chloromethane	10	U	ug/kg	10	10	U	ug/kg	10	13	U	ug/kg	13	11	U	ug/kg	11
Bromomethane	10	U	ug/kg	10	10	U	ug/kg	10	13	U	ug/kg	13	11	U	ug/kg	11
Vinyl chloride	10	U	ug/kg	10	10	U	ug/kg	10	13	U	ug/kg	13	11	U	ug/kg	11
Chloroethane	10	U	ug/kg	10	10	U	ug/kg	10	13	U	ug/kg	13	11	U	ug/kg	11
Methylene chloride	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Acetone	10	U	ug/kg	10	10	U	ug/kg	10	13	U	ug/kg	13	11	U	ug/kg	11
Carbon disulfide	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
1,1-Dichloroethene	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
1,1-Dichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
1,2-Dichloroethene (total)	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Chloroform	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
1,2-Dichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
2-Butanone	10	U	ug/kg	10	10	U	ug/kg	10	13	U	ug/kg	13	11	U	ug/kg	11
1,1,1-Trichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Carbon tetrachloride	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Bromodichloromethane	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
1,2-Dichloropropane	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
cis-1,3-Dichloropropene	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Trichloroethene	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Dibromochloromethane	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
1,1,2-Trichloroethane	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Benzene	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
trans-1,3-Dichloropropene	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Bromoform	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
4-Methyl-2-pentanone	10	U	ug/kg	10	10	U	ug/kg	10	13	U	ug/kg	13	11	U	ug/kg	11
2-Hexanone	10	U	ug/kg	10	10	U	ug/kg	10	13	U	ug/kg	13	11	U	ug/kg	11
Tetrachloroethene	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Toluene	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
1,1,2,2-Tetrachloroethane	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Chlorobenzene	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Ethylbenzene	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Styrene	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/kg	5
Xylenes (total)	5	U	ug/kg	5	5	U	ug/kg	5	7	U	ug/kg	7	5	U	ug/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 -- FACILITY 817
SURFACE SOIL -- VOLATILES -- REPORT REQUEST NO. 10159

Lab Sample Number:	C2TR8				C2TR9			
Site	CECILBRAC2				CECILBRAC2			
Locator	23S00401				23S00501			
Collect Date:	01-FEB-96				01-FEB-96			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW								
Chloromethane	11	U	ug/kg	11	11	U	ug/kg	11
Bromomethane	11	U	ug/kg	11	11	U	ug/kg	11
Vinyl chloride	11	U	ug/kg	11	11	U	ug/kg	11
Chloroethane	11	U	ug/kg	11	11	U	ug/kg	11
Methylene chloride	5	U	ug/kg	5	5	U	ug/kg	5
Acetone	11	U	ug/kg	11	29	J	ug/kg	11
Carbon disulfide	5	U	ug/kg	5	5	U	ug/kg	5
1,1-Dichloroethene	5	U	ug/kg	5	5	U	ug/kg	5
1,1-Dichloroethane	5	U	ug/kg	5	5	U	ug/kg	5
1,2-Dichloroethene (total)	5	U	ug/kg	5	5	U	ug/kg	5
Chloroform	5	U	ug/kg	5	5	U	ug/kg	5
1,2-Dichloroethane	5	U	ug/kg	5	5	U	ug/kg	5
2-Butanone	11	U	ug/kg	11	11	U	ug/kg	11
1,1,1-Trichloroethane	5	U	ug/kg	5	5	U	ug/kg	5
Carbon tetrachloride	5	U	ug/kg	5	5	U	ug/kg	5
Bromodichloromethane	5	U	ug/kg	5	5	U	ug/kg	5
1,2-Dichloropropane	5	U	ug/kg	5	5	U	ug/kg	5
cis-1,3-Dichloropropene	5	U	ug/kg	5	5	U	ug/kg	5
Trichloroethene	5	U	ug/kg	5	5	U	ug/kg	5
Dibromochloromethane	5	U	ug/kg	5	5	U	ug/kg	5
1,1,2-Trichloroethane	5	U	ug/kg	5	5	U	ug/kg	5
Benzene	5	U	ug/kg	5	5	U	ug/kg	5
trans-1,3-Dichloropropene	5	U	ug/kg	5	5	U	ug/kg	5
Bromoform	5	U	ug/kg	5	5	U	ug/kg	5
4-Methyl-2-pentanone	11	U	ug/kg	11	11	U	ug/kg	11
2-Hexanone	11	U	ug/kg	11	11	U	ug/kg	11
Tetrachloroethene	5	U	ug/kg	5	5	U	ug/kg	5
Toluene	5	U	ug/kg	5	5	U	ug/kg	5
1,1,2,2-Tetrachloroethane	5	U	ug/kg	5	5	U	ug/kg	5
Chlorobenzene	5	U	ug/kg	5	5	U	ug/kg	5
Ethylbenzene	5	U	ug/kg	5	5	U	ug/kg	5
Styrene	5	U	ug/kg	5	5	U	ug/kg	5
Xylenes (total)	5	U	ug/kg	5	5	U	ug/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 -- FACILITY 817
SURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 10160

Lab Sample Number:	C2TR4				C2TR5D				C2TR6				C2TR7			
Site	CECILBRAC2				CECILBRAC2				CECILBRAC2				CECILBRAC2			
Locator	23S00101				23S00101D				23S00201				23S00301			
Collect Date:	01-FEB-96				01-FEB-96				01-FEB-96				01-FEB-96			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW																
Phenol	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
bis(2-Chloroethyl) ether	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2-Chlorophenol	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
1,3-Dichlorobenzene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
1,4-Dichlorobenzene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
1,2-Dichlorobenzene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2-Methylphenol	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2,2-oxybis(1-Chloropropane)	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
4-Methylphenol	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
N-Nitroso-di-n-propylamine	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Hexachloroethane	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Nitrobenzene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Isophorone	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2-Nitrophenol	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2,4-Dimethylphenol	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
bis(2-Chloroethoxy) methane	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2,4-Dichlorophenol	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
1,2,4-Trichlorobenzene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Naphthalene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
4-Chloroaniline	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Hexachlorobutadiene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
4-Chloro-3-methylphenol	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2-Methylnaphthalene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Hexachlorocyclopentadiene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2,4,6-Trichlorophenol	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2,4,5-Trichlorophenol	810	U	ug/kg	810	850	U	ug/kg	850	1100	U	ug/kg	1100	880	U	ug/kg	880
2-Chloronaphthalene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2-Nitroaniline	810	U	ug/kg	810	850	U	ug/kg	850	1100	U	ug/kg	1100	880	U	ug/kg	880
Dimethylphthalate	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Acenaphthylene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2,6-Dinitrotoluene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
3-Nitroaniline	810	U	ug/kg	810	850	U	ug/kg	850	1100	U	ug/kg	1100	880	U	ug/kg	880
Acenaphthene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2,4-Dinitrophenol	810	U	ug/kg	810	850	U	ug/kg	850	1100	U	ug/kg	1100	880	U	ug/kg	880
4-Nitrophenol	810	U	ug/kg	810	850	U	ug/kg	850	1100	U	ug/kg	1100	880	U	ug/kg	880
Dibenzofuran	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
2,4-Dinitrotoluene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Diethylphthalate	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
4-Chlorophenyl-phenylether	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Fluorene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
4-Nitroaniline	810	U	ug/kg	810	850	U	ug/kg	850	1100	U	ug/kg	1100	880	U	ug/kg	880
4,6-Dinitro-2-methylphenol	810	U	ug/kg	810	850	U	ug/kg	850	1100	U	ug/kg	1100	880	U	ug/kg	880
N-Nitrosodiphenylamine	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
4-Bromophenyl-phenylether	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Hexachlorobenzene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Pentachlorophenol	810	U	ug/kg	810	850	U	ug/kg	850	1100	U	ug/kg	1100	880	U	ug/kg	880
Phenanthrene	26	J	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Anthracene	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Carbazole	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Di-n-butylphthalate	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360

NAS CECIL FIELD -- FACILITY 817
SURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 10160

Lab Sample Number:	C2TR4				C2TR5D				C2TR6				C2TR7			
Site	CECILBRAC2				CECILBRAC2				CECILBRAC2				CECILBRAC2			
Locator	23S00101				23S00101D				23S00201				23S00301			
Collect Date:	01-FEB-96				01-FEB-96				01-FEB-96				01-FEB-96			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
Fluoranthene	100	J	ug/kg	330	47	J	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Pyrene	69	J	ug/kg	330	35	J	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Butylbenzylphthalate	120	J	ug/kg	330	76	J	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
3,3-Dichlorobenzidine	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Benzo (a) anthracene	50	J	ug/kg	330	22	J	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Chrysene	85	J	ug/kg	330	53	J	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
bis(2-Ethylhexyl) phthalate	160	J	ug/kg	330	150	J	ug/kg	350	69	J	ug/kg	440	46	J	ug/kg	360
Di-n-octylphthalate	330	U	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Benzo (b) fluoranthene	140	J	ug/kg	330	91	J	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Benzo (k) fluoranthene	56	J	ug/kg	330	40	J	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Benzo (a) pyrene	85	J	ug/kg	330	50	J	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Indeno (1,2,3-cd) pyrene	98	J	ug/kg	330	63	J	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Dibenzo (a,h) anthracene	18	J	ug/kg	330	350	U	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360
Benzo (g,h,i) perylene	120	J	ug/kg	330	71	J	ug/kg	350	440	U	ug/kg	440	360	U	ug/kg	360

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

NAS CECIL FIELD -- FACILITY 817
SURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 10160

	C2TR8				C2TR9			
Lab Sample Number:								
Site	CECILBRAC2				CECILBRAC2			
Locator	23S00401				23S00501			
Collect Date:	01-FEB-96				01-FEB-96			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW								
Phenol	360	U	ug/kg	360	360	U	ug/kg	360
bis(2-Chloroethyl) ether	360	U	ug/kg	360	360	U	ug/kg	360
2-Chlorophenol	360	U	ug/kg	360	360	U	ug/kg	360
1,3-Dichlorobenzene	360	U	ug/kg	360	360	U	ug/kg	360
1,4-Dichlorobenzene	360	U	ug/kg	360	360	U	ug/kg	360
1,2-Dichlorobenzene	360	U	ug/kg	360	360	U	ug/kg	360
2-Methylphenol	360	U	ug/kg	360	360	U	ug/kg	360
2,2-oxybis(1-Chloropropane)	360	U	ug/kg	360	360	U	ug/kg	360
4-Methylphenol	360	U	ug/kg	360	360	U	ug/kg	360
N-Nitroso-di-n-propylamine	360	U	ug/kg	360	360	U	ug/kg	360
Hexachloroethane	360	U	ug/kg	360	360	U	ug/kg	360
Nitrobenzene	360	U	ug/kg	360	360	U	ug/kg	360
Isophorone	360	U	ug/kg	360	360	U	ug/kg	360
2-Nitrophenol	360	U	ug/kg	360	360	U	ug/kg	360
2,4-Dimethylphenol	360	U	ug/kg	360	360	U	ug/kg	360
bis(2-Chloroethoxy) methane	360	U	ug/kg	360	360	U	ug/kg	360
2,4-Dichlorophenol	360	U	ug/kg	360	360	U	ug/kg	360
1,2,4-Trichlorobenzene	360	U	ug/kg	360	360	U	ug/kg	360
Naphthalene	360	U	ug/kg	360	360	U	ug/kg	360
4-Chloroaniline	360	U	ug/kg	360	360	U	ug/kg	360
Hexachlorobutadiene	360	U	ug/kg	360	360	U	ug/kg	360
4-Chloro-3-methylphenol	360	U	ug/kg	360	360	U	ug/kg	360
2-Methylnaphthalene	360	U	ug/kg	360	360	U	ug/kg	360
Hexachlorocyclopentadiene	360	U	ug/kg	360	360	U	ug/kg	360
2,4,6-Trichlorophenol	360	U	ug/kg	360	360	U	ug/kg	360
2,4,5-Trichlorophenol	870	U	ug/kg	870	860	U	ug/kg	860
2-Chloronaphthalene	360	U	ug/kg	360	360	U	ug/kg	360
2-Nitroaniline	870	U	ug/kg	870	860	U	ug/kg	860
Dimethylphthalate	360	U	ug/kg	360	360	U	ug/kg	360
Acenaphthylene	360	U	ug/kg	360	360	U	ug/kg	360
2,6-Dinitrotoluene	360	U	ug/kg	360	360	U	ug/kg	360
3-Nitroaniline	870	U	ug/kg	870	860	U	ug/kg	860
Acenaphthene	360	U	ug/kg	360	360	U	ug/kg	360
2,4-Dinitrophenol	870	U	ug/kg	870	860	U	ug/kg	860
4-Nitrophenol	870	U	ug/kg	870	860	U	ug/kg	860
Dibenzofuran	360	U	ug/kg	360	360	U	ug/kg	360
2,4-Dinitrotoluene	360	U	ug/kg	360	360	U	ug/kg	360
Diethylphthalate	360	U	ug/kg	360	360	U	ug/kg	360
4-Chlorophenyl-phenylether	360	U	ug/kg	360	360	U	ug/kg	360
Fluorene	360	U	ug/kg	360	360	U	ug/kg	360

NAS CECIL FIELD -- FACILITY 817
SURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 10160

Lab Sample Number:	C2TR8				C2TR9			
Site	CECILBRAC2				CECILBRAC2			
Locator	23S00401				23S00501			
Collect Date:	01-FEB-96				01-FEB-96			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
4-Nitroaniline	870	U	ug/kg	870	860	U	ug/kg	860
4,6-Dinitro-2-methylphenol	870	U	ug/kg	870	860	U	ug/kg	860
N-Nitrosodiphenylamine	360	U	ug/kg	360	360	U	ug/kg	360
4-Bromophenyl-phenylether	360	U	ug/kg	360	360	U	ug/kg	360
Hexachlorobenzene	360	U	ug/kg	360	360	U	ug/kg	360
Pentachlorophenol	870	U	ug/kg	870	860	U	ug/kg	860
Phenanthrene	56	J	ug/kg	350	360	U	ug/kg	360
Anthracene	360	U	ug/kg	360	360	U	ug/kg	360
Carbazole	360	U	ug/kg	360	360	U	ug/kg	360
Di-n-butylphthalate	360	U	ug/kg	360	360	U	ug/kg	360
Fluoranthene	150	J	ug/kg	350	360	U	ug/kg	360
Pyrene	90	J	ug/kg	350	360	U	ug/kg	360
Butylbenzylphthalate	96	J	ug/kg	350	360	U	ug/kg	360
3,3-Dichlorobenzidine	360	U	ug/kg	360	360	U	ug/kg	360
Benzo (a) anthracene	72	J	ug/kg	350	360	U	ug/kg	360
Chrysene	93	J	ug/kg	350	360	U	ug/kg	360
bis(2-Ethylhexyl) phthalate	86	J	ug/kg	350	55	J	ug/kg	350
Di-n-octylphthalate	360	U	ug/kg	360	360	U	ug/kg	360
Benzo (b) fluoranthene	140	J	ug/kg	350	360	U	ug/kg	360
Benzo (k) fluoranthene	54	J	ug/kg	350	360	U	ug/kg	360
Benzo (a) pyrene	94	J	ug/kg	350	360	U	ug/kg	360
Indeno (1,2,3-cd) pyrene	60	J	ug/kg	350	360	U	ug/kg	360
Dibenzo (a,h) anthracene	360	U	ug/kg	360	360	U	ug/kg	360
Benzo (g,h,i) perylene	61	J	ug/kg	350	360	U	ug/kg	360

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

NAS CECIL FIELD -- FACILITY 817
SURFACE SOIL -- PESTICIDES & PCBs -- REPORT REQUEST NO. 10161

Lab Sample Number:	C2TR4				C2TR5D				C2TR6				C2TR7			
Site	CECILBRAC2				CECILBRAC2				CECILBRAC2				CECILBRAC2			
Locator	23S00101				23S00101D				23S00201				23S00301			
Collect Date:	01-FEB-96				01-FEB-96				01-FEB-96				01-FEB-96			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW																
alpha-BHC	1.7	U	ug/kg	1.7	1.8	U	ug/kg	1.8	4.4	U	ug/kg	4.4	8.9	U	ug/kg	8.9
beta-BHC	1.7	U	ug/kg	1.7	1.8	U	ug/kg	1.8	1.8	J	ug/kg	4	1.1	J	ug/kg	9
delta-BHC	1.7	U	ug/kg	1.7	1.8	U	ug/kg	1.8	4.4	U	ug/kg	4.4	8.9	U	ug/kg	8.9
gamma-BHC (Lindane)	1.7	U	ug/kg	1.7	1.8	U	ug/kg	1.8	4.4	U	ug/kg	4.4	8.9	U	ug/kg	8.9
Heptachlor	1.7	U	ug/kg	1.7	1.8	U	ug/kg	1.8	4.4	U	ug/kg	4.4	8.9	U	ug/kg	8.9
Aldrin	1.7	U	ug/kg	1.7	.9	J	ug/kg	2	4.4	U	ug/kg	4.4	8.9	U	ug/kg	8.9
Heptachlor epoxide	1.7	U	ug/kg	1.7	.28	J	ug/kg	2	70	J	ug/kg	4	3.4	J	ug/kg	9
Endosulfan I	1.7	U	ug/kg	1.7	1.8	U	ug/kg	1.8	4.4	U	ug/kg	4.4	8.9	U	ug/kg	8.9
Dieldrin	.09	J	ug/kg	3	6.7		ug/kg	3	8.9	U	ug/kg	8.9	18	U	ug/kg	18
4,4-DDE	3.4	U	ug/kg	3.4	3.5	U	ug/kg	3.5	8.9	U	ug/kg	8.9	18	U	ug/kg	18
Endrin	3.4	U	ug/kg	3.4	.11	J	ug/kg	3	17	J	ug/kg	9	.63	J	ug/kg	18
Endosulfan II	3.4	U	ug/kg	3.4	3.5	U	ug/kg	3.5	8.9	U	ug/kg	8.9	18	U	ug/kg	18
4,4-DDD	3.4	U	ug/kg	3.4	3.5	U	ug/kg	3.5	7.2	J	ug/kg	9	18	U	ug/kg	18
Endosulfan sulfate	3.4	U	ug/kg	3.4	3.5	U	ug/kg	3.5	8.9	U	ug/kg	8.9	18	U	ug/kg	18
4,4-DDT	3.4	U	ug/kg	3.4	3.5	U	ug/kg	3.5	8.9	U	ug/kg	8.9	18	U	ug/kg	18
Methoxychlor	6	J	ug/kg	17	18	U	ug/kg	18	44	U	ug/kg	44	89	U	ug/kg	89
Endrin ketone	3.4	U	ug/kg	3.4	3.5	U	ug/kg	3.5	8.9	U	ug/kg	8.9	18	U	ug/kg	18
Endrin aldehyde	3.4	U	ug/kg	3.4	3.5	U	ug/kg	3.5	8.9	U	ug/kg	8.9	18	U	ug/kg	18
alpha-Chlordane	.28	J	ug/kg	2	.31	J	ug/kg	2	83	J	ug/kg	4	5.6	J	ug/kg	9
gamma-Chlordane	.74	J	ug/kg	2	.82	J	ug/kg	2	560		ug/kg	4	50		ug/kg	9
Toxaphene	170	U	ug/kg	170	180	U	ug/kg	180	440	U	ug/kg	440	890	U	ug/kg	890
Aroclor-1016	34	U	ug/kg	34	35	U	ug/kg	35	89	U	ug/kg	89	180	U	ug/kg	180
Aroclor-1221	67	U	ug/kg	67	70	U	ug/kg	70	180	U	ug/kg	180	360	U	ug/kg	360
Aroclor-1232	34	U	ug/kg	34	35	U	ug/kg	35	89	U	ug/kg	89	180	U	ug/kg	180
Aroclor-1242	34	U	ug/kg	34	35	U	ug/kg	35	89	U	ug/kg	89	180	U	ug/kg	180
Aroclor-1248	34	U	ug/kg	34	35	U	ug/kg	35	89	U	ug/kg	89	180	U	ug/kg	180
Aroclor-1254	34	U	ug/kg	34	35	U	ug/kg	35	89	U	ug/kg	89	180	U	ug/kg	180
Aroclor-1260	34	U	ug/kg	34	35	U	ug/kg	35	140	J	ug/kg	88	180	U	ug/kg	180

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R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- FACILITY 817
SURFACE SOIL -- PESTICIDES & PCBs -- REPORT REQUEST NO. 10161

Lab Sample Number:	C2TR8			C2TR9		
Site	CECILBRAC2			CECILBRAC2		
Locator	23S00401			23S00501		
Collect Date:	01-FEB-96			01-FEB-96		
	VALUE QUAL	UNITS	DL	VALUE QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW						
alpha-BHC	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
beta-BHC	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
delta-BHC	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
gamma-BHC (Lindane)	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
Heptachlor	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
Aldrin	.25 J	ug/kg	2	.54 J	ug/kg	2
Heptachlor epoxide	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
Endosulfan I	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
Dieldrin	1.7 J	ug/kg	4	3.6 U	ug/kg	3.6
4,4-DDE	3.6 U	ug/kg	3.6	3.6 U	ug/kg	3.6
Endrin	3.6 U	ug/kg	3.6	3.6 U	ug/kg	3.6
Endosulfan II	3.6 U	ug/kg	3.6	3.6 U	ug/kg	3.6
4,4-DDD	3.6 U	ug/kg	3.6	3.6 U	ug/kg	3.6
Endosulfan sulfate	3.6 U	ug/kg	3.6	3.6 U	ug/kg	3.6
4,4-DDT	3.6 U	ug/kg	3.6	3.6 U	ug/kg	3.6
Methoxychlor	18 U	ug/kg	18	18 U	ug/kg	18
Endrin ketone	3.6 U	ug/kg	3.6	3.6 U	ug/kg	3.6
Endrin aldehyde	3.6 U	ug/kg	3.6	3.6 U	ug/kg	3.6
alpha-Chlordane	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
gamma-Chlordane	.5 J	ug/kg	2	.6 J	ug/kg	2
Toxaphene	180 U	ug/kg	180	180 U	ug/kg	180
Aroclor-1016	36 U	ug/kg	36	36 U	ug/kg	36
Aroclor-1221	72 U	ug/kg	72	72 U	ug/kg	72
Aroclor-1232	36 U	ug/kg	36	36 U	ug/kg	36
Aroclor-1242	36 U	ug/kg	36	36 U	ug/kg	36
Aroclor-1248	36 U	ug/kg	36	36 U	ug/kg	36
Aroclor-1254	36 U	ug/kg	36	36 U	ug/kg	36
Aroclor-1260	36 U	ug/kg	36	36 U	ug/kg	36

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NAS CECIL FIELD -- FACILITY 817
SURFACE SOIL -- INORGANICS -- REPORT REQUEST NO. 10162

Lab Sample Number:	C2TR4				C2TR5				C2TR6				C2TR7			
Site	CECILBRAC2				CECILBRAC2				CECILBRAC2				CECILBRAC2			
Locator	23S00101				23S00101D				23S00201				23S00301			
Collect Date:	01-FEB-96				01-FEB-96				01-FEB-96				01-FEB-96			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE																
Aluminum	3600		mg/kg	40	4580		mg/kg	40	2490		mg/kg	40	3370		mg/kg	40
Antimony	.81	U	mg/kg	12	.85	U	mg/kg	12	1.1	U	mg/kg	12	.88	U	mg/kg	12
Arsenic	.61	U	mg/kg	2	.64	U	mg/kg	2	.8	U	mg/kg	2	.66	U	mg/kg	2
Barium	6.3	J	mg/kg	40	11.5	J	mg/kg	40	4.7	J	mg/kg	40	6.8	J	mg/kg	40
Beryllium	.2	U	mg/kg	1	.21	U	mg/kg	1	.27	U	mg/kg	1	.22	U	mg/kg	1
Cadmium	.81	U	mg/kg	1	.85	U	mg/kg	1	1.1	U	mg/kg	1	.88	U	mg/kg	1
Calcium	10900		mg/kg	1000	9720		mg/kg	1000	28900		mg/kg	1000	62400		mg/kg	1000
Chromium	6.5		mg/kg	2	6.8		mg/kg	2	9		mg/kg	2	10.7		mg/kg	2
Cobalt	.2	U	mg/kg	10	.31	J	mg/kg	10	.29	J	mg/kg	10	.31	J	mg/kg	10
Copper	3.4	J	mg/kg	5	2.9	J	mg/kg	5	5.4	J	mg/kg	5	2.1	J	mg/kg	5
Iron	529	J	mg/kg	20	443	J	mg/kg	20	821	J	mg/kg	20	698	J	mg/kg	20
Lead	14.3	J	mg/kg	.6	15.6	J	mg/kg	.6	8.3	J	mg/kg	.6	4.2	J	mg/kg	.6
Magnesium	166	J	mg/kg	1000	147	J	mg/kg	1000	210	J	mg/kg	1000	437	J	mg/kg	1000
Manganese	5.3		mg/kg	3	4.5		mg/kg	3	9.2		mg/kg	3	11.6		mg/kg	3
Mercury	.1	U	mg/kg	.1	.11	U	mg/kg	.1	.13	U	mg/kg	.1	.11	U	mg/kg	.1
Nickel	1.6	J	mg/kg	8	2.3	J	mg/kg	8	1.4	J	mg/kg	8	1.6	J	mg/kg	8
Potassium	55.9	J	mg/kg	1000	64.1	J	mg/kg	1000	35.7	J	mg/kg	1000	39.1	J	mg/kg	1000
Selenium	.81	U	mg/kg	1	.85	U	mg/kg	1	1.1	U	mg/kg	1	.88	U	mg/kg	1
Silver	.2	U	mg/kg	2	.21	U	mg/kg	2	.27	U	mg/kg	2	.22	U	mg/kg	2
Sodium	150	J	mg/kg	1000	134	J	mg/kg	1000	176	J	mg/kg	1000	153	J	mg/kg	1000
Thallium	.61	U	mg/kg	2	.64	U	mg/kg	2	.8	U	mg/kg	2	.66	U	mg/kg	2
Vanadium	3.3	J	mg/kg	10	3.3	J	mg/kg	10	3.2	J	mg/kg	10	3.9	J	mg/kg	10
Zinc	19.1		mg/kg	4	15.3		mg/kg	4	22.8		mg/kg	4	4.7		mg/kg	4
Cyanide	.1	U	mg/kg	.5	.11	U	mg/kg	.5	.13	U	mg/kg	.5	.11	U	mg/kg	.5

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NAS CECIL FIELD -- FACILITY 817
SURFACE SOIL -- INORGANICS -- REPORT REQUEST NO. 10162

	C2TR8				C2TR9			
Lab Sample Number:								
Site	CECILBRAC2				CECILBRAC2			
Locator	23S00401				23S00501			
Collect Date:	01-FEB-96				01-FEB-96			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE								
Aluminum	1410		mg/kg	40	3020		mg/kg	40
Antimony	.87	U	mg/kg	12	.87	U	mg/kg	12
Arsenic	.65	U	mg/kg	2	.65	U	mg/kg	2
Barium	5.2	J	mg/kg	40	5.8	J	mg/kg	40
Beryllium	.22	U	mg/kg	1	.22	U	mg/kg	1
Cadmium	1.1		mg/kg	1	.87	U	mg/kg	1
Calcium	7100		mg/kg	1000	55700		mg/kg	1000
Chromium	9.9		mg/kg	2	8.6		mg/kg	2
Cobalt	.22	U	mg/kg	10	.29	J	mg/kg	10
Copper	3	J	mg/kg	5	2	J	mg/kg	5
Iron	568	J	mg/kg	20	565	J	mg/kg	20
Lead	15.2	J	mg/kg	.6	18.8	J	mg/kg	.6
Magnesium	285	J	mg/kg	1000	362	J	mg/kg	1000
Manganese	7.9		mg/kg	3	9.7		mg/kg	3
Mercury	.11	U	mg/kg	.1	.11	U	mg/kg	.1
Nickel	1.3	J	mg/kg	8	1.5	J	mg/kg	8
Potassium	22.6	J	mg/kg	1000	43.6	J	mg/kg	1000
Selenium	.87	U	mg/kg	1	.87	U	mg/kg	1
Silver	.22	U	mg/kg	2	.22	U	mg/kg	2
Sodium	127	J	mg/kg	1000	101	J	mg/kg	1000
Thallium	.65	U	mg/kg	2	.65	U	mg/kg	2
Vanadium	2.1	J	mg/kg	10	3.2	J	mg/kg	10
Zinc	17.3		mg/kg	4	4.1	J	mg/kg	4
Cyanide	.11	U	mg/kg	.5	.11	U	mg/kg	.5

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NAS CECIL FIELD -- FACILITY 817
SURFACE SOIL -- TRPH -- REPORT REQUEST NO. 10163

Lab Sample Number:		A6B0201090			A6B0201090			A6B0201090			A6B0201090		
Site		CECILBRAC2			CECILBRAC2			CECILBRAC2			CECILBRAC2		
Locator		23S00101			23S00101D			23S00201			23S00301		
Collect Date:		01-FEB-96			01-FEB-96			01-FEB-96			01-FEB-96		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	
TPH													
Total petroleum hydrocarbons	58		mg/kg	10	70		mg/kg	11	660		mg/kg	67	36		mg/kg	11

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NAS CECIL FIELD -- FACILITY 817
SURFACE SOIL -- TRPH -- REPORT REQUEST NO. 10163

Lab Sample Number:		A6B0201090				A6B0201090		
Site		CECILBRAC2				CECILBRAC2		
Locator		23S00401				23S00501		
Collect Date:		01-FEB-96				01-FEB-96		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
TPH								
Total petroleum hydrocarbons	28		mg/kg	11	23		mg/kg	11

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NAS CECIL FIELD -- FACILITY 817
GROUNDWATER -- VOLATILES -- REPORT REQUEST NO. 10164

Lab Sample Number:	C32GT
Site	CECILBRAC2
Locator	23G00101
Collect Date:	20-FEB-96

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

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NAS CECIL FIELD -- FACILITY 817
GROUNDWATER -- SEMIVOLATILES -- REPORT REQUEST NO. 10165

Lab Sample Number:	C32GT			
Site	CECILBRAC2			
Locator	23G00101			
Collect Date:	20-FEB-96			
	VALUE	QUAL	UNITS	DL
CLP SEMIVOLATILES 90-SOW				
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
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

NAS CECIL FIELD -- FACILITY 817
GROUNDWATER -- SEMIVOLATILES -- REPORT REQUEST NO. 10165

Lab Sample Number:	C32GT			
Site	CECILBRAC2			
Locator	23G00101			
Collect Date:	20-FEB-96			
	VALUE	QUAL	UNITS	DL
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	10	U	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 -- FACILITY 817
GROUNDWATER -- PESTICIDES & PCBs -- REPORT REQUEST NO. 10166

Lab Sample Number:	C32GT
Site	CECILBRAC2
Locator	23G00101
Collect Date:	20-FEB-96

	VALUE	QUAL	UNITS	DL
CLP PESTICIDES/PCBS 90-SOW				
alpha-BHC	.05	U	ug/l	.05
beta-BHC	.05	U	ug/l	.05
delta-BHC	.05	U	ug/l	.05
gamma-BHC (Lindane)	.05	U	ug/l	.05
Heptachlor	.05	U	ug/l	.05
Aldrin	.05	U	ug/l	.05
Heptachlor epoxide	.05	U	ug/l	.05
Endosulfan I	.05	U	ug/l	.05
Dieldrin	.1	U	ug/l	.1
4,4-DDE	.1	U	ug/l	.1
Endrin	.1	U	ug/l	.1
Endosulfan II	.1	U	ug/l	.1
4,4-DDD	.1	U	ug/l	.1
Endosulfan sulfate	.1	U	ug/l	.1
4,4-DDT	.1	U	ug/l	.1
Methoxychlor	.5	U	ug/l	.5
Endrin ketone	.1	U	ug/l	.1
Endrin aldehyde	.1	U	ug/l	.1
alpha-Chlordane	.05	U	ug/l	.05
gamma-Chlordane	.05	U	ug/l	.05
Toxaphene	5	U	ug/l	5
Aroclor-1016	1	U	ug/l	1
Aroclor-1221	2	U	ug/l	2
Aroclor-1232	1	U	ug/l	1
Aroclor-1242	1	U	ug/l	1
Aroclor-1248	1	U	ug/l	1
Aroclor-1254	1	U	ug/l	1
Aroclor-1260	1	U	ug/l	1

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NAS CECIL FIELD -- FACILITY 817
GROUNDWATER -- INORGANICS -- REPORT REQUEST NO. 10167

Lab Sample Number:	C32GT			
Site	CECILBRAC2			
Locator	23G00101			
Collect Date:	20-FEB-96			
	VALUE	QUAL	UNITS	DL
CLP METALS AND CYANIDE				
Aluminum	754	N	ug/l	40
Antimony	2	U	ug/l	12
Arsenic	3	U	ug/l	2
Barium	13.3	J	ug/l	40
Beryllium	1	U	ug/l	1
Cadmium	1	U	ug/l	1
Calcium	12600		ug/l	1000
Chromium	2	U	ug/l	2
Cobalt	2	U	ug/l	10
Copper	2	U	ug/l	5
Iron	1450	N	ug/l	20
Lead	2	U	ug/l	.6
Magnesium	38.2	J	ug/l	1000
Manganese	52.9		ug/l	3
Mercury	.2	U	ug/l	.1
Nickel	2	U	ug/l	8
Potassium	1090	J	ug/l	1000
Selenium	3	U	ug/l	1
Silver	1	U	ug/l	2
Sodium	2180	J	ug/l	1000
Thallium	4	U	ug/l	2
Vanadium	6	J	ug/l	10
Zinc	7.4	JN	ug/l	4
Cyanide	4.1	JN	ug/l	.5

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R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- FACILITY 817
GROUNDWATER -- TRPH -- REPORT REQUEST NO. 10168

Lab Sample Number:		A6B2101100		
Site		CECILBRAC2		
Locator		23G00101		
Collect Date:		20-FEB-96		
	VALUE	QUAL	UNITS	DL
TPH				
Total petroleum hydrocarbons	.5	U	mg/l	.5

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