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NAS CECIL FIELD  
5090.3a

SAMPLING AND ANALYSIS REPORT BUILDING 201 AND AREA OF INTEREST 27 PUBLIC  
WORKS HAZARDOUS MATERIALS STORAGE SHED BASE REALIGNMENT ZONE C  
DEVELOPED NONINDUSTRIAL AREA NAS CECIL FIELD FL  
7/1/1998  
HARDING LAWSON ASSOCIATES

**SAMPLING AND ANALYSIS REPORT  
BUILDING 201 AND AREA OF INTEREST 27  
PUBLIC WORKS HAZARDOUS MATERIALS STORAGE SHED**

**BASE REALIGNMENT AND CLOSURE**

**ZONE C, DEVELOPED NONINDUSTRIAL AREA**

**NAVAL AIR STATION CECIL FIELD  
JACKSONVILLE, FLORIDA**

**Unit Identification Code N60200**

**Contract No. N62467-89-D-0317/090**

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## GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
AOI	area of interest
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
NAS	Naval Air Station
PRE	preliminary risk evaluation
RBC	risk-based concentration
SAO	sampling and analysis outline
SCTL	soil cleanup target level
TRPH	total recoverable petroleum hydrocarbons
USEPA	U.S. Environmental Protection Agency

## 1.0 INTRODUCTION

Harding Lawson Associates (HLA) (formerly ABB Environmental Services, Inc. [ABB-ES]), has completed the Phase II Sampling and Analysis program for the Public Works Maintenance Contractor Area at Naval Air Station (NAS) Cecil Field. This report summarizes the field operations, results, conclusions, and recommendations of the Phase II investigation pertaining to Building 201 and Area of Interest (AOI) 27.

AOI 27 is a covered shed attached to Building 201, and has been used by public works maintenance contractors as a temporary storage area for 55-gallon drums of hazardous and nonhazardous waste. Portable waste oil containers have been stored on unimproved ground on the east side of Building 201. Electrical equipment has been stored in a sheltered area on the western side of the Building 201. Storm water from AOI-27, and the east side of Building 201, runs off to a drainage swale to the east. A more detailed description of environmental concerns is presented in the Environmental Baseline Survey Report (EBS) (ABB-ES, 1994b), and the Sampling and Analysis Outline (SAO) for the assessment of soil and groundwater at the Public Works Maintenance Contractor Area (ABB-ES 1997).

## 2.0 PHASE II INVESTIGATION

The Phase II investigation included the collection and analysis of five surface soil samples and one groundwater sample in the vicinity of AOI 27. Field activities were undertaken in general conformance with the Project Operations Plan (ABB-ES, 1994a).

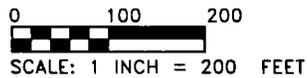
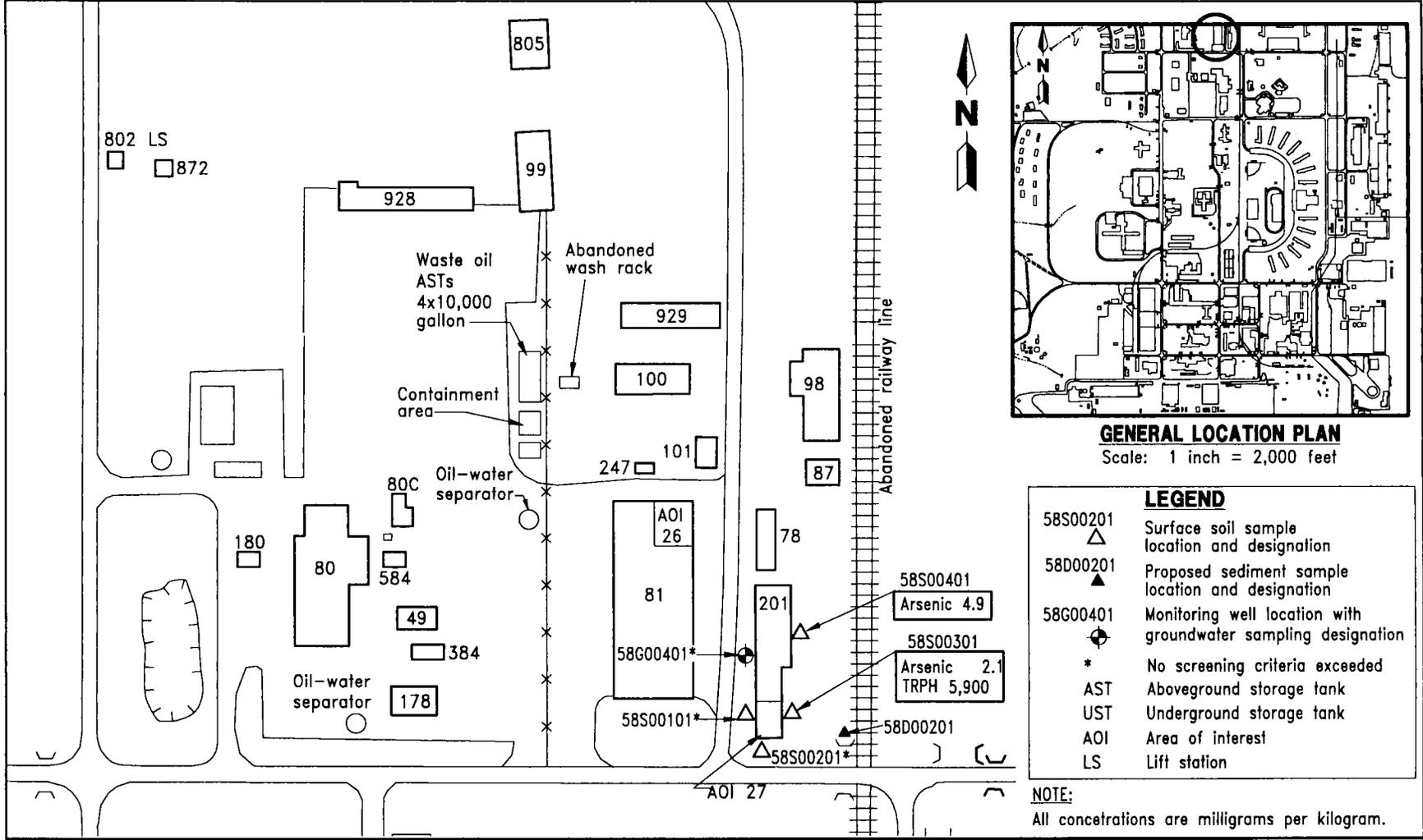
Surface soil samples were collected adjacent to the south, east, and west sides of AOI 27. Additional surface soil samples were collected from the east side of Building 201, where waste oil containers have been reported to have been stored, and in the drainage swale downgradient of AOI 27 and Building 201. The area where the surface soil sample was collected from the drainage swale does not normally contain water.

Groundwater flow in the study area was determined to be to the west-southwest based upon observed groundwater surface elevations in nearby piezometers. One groundwater sample was collected from a shallow groundwater monitoring well installed near the southwest corner (downgradient) of Building 201.

A site plan indicating the locations of soil samples and the monitoring well is presented on Figure 1. A monitoring well boring log is included in Appendix A. Surface soil and groundwater samples were analyzed for the full suite of target compound list organics and target analyte list inorganics. Laboratory analytical data are provided in Appendix B.

## 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 surface soil and groundwater. Primary exposure pathways were evaluated to determine those pathways that potentially contribute to human health and ecological risks. The evaluation



**FIGURE 1**  
**FACILITY 201 AND AREA OF INTEREST 27**  
**SAMPLE LOCATION PLAN**



**SAMPLING AND ANALYSIS REPORT**

**NAVAL AIR STATION CECIL FIELD**  
**JACKSONVILLE, FLORIDA**

was conducted in general conformance with methodology provided in the U.S. Environmental Protection Agency (USEPA) Region IV memorandum entitled Amended Guidance on Preliminary Risk Evaluations (PREs) for the Purpose of Reaching a Finding of Suitability to Lease (FOSL) (USEPA, 1994), USEPA Region IV bulletins on ecological risk assessment (USEPA, 1995a, 1995b), and minutes of meetings with the USEPA and the Florida Department of Environmental Protection concerning PREs (ABB-ES, 1995). Site background information and rationale for sample collection and analysis are detailed in the EBS Report (ABB-ES, 1994b) and the SAO (ABB-ES, 1997).

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 PRE.** 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 and groundwater. Risk-based screening values were obtained from USEPA Region III Risk-Based Concentrations (RBCs), (USEPA, 1996), and Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Levels (SCTLs) and groundwater cleanup target levels (GCTLs) (FDEP, 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  $1 \times 10^{-6}$ . 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 (ELCR of  $1 \times 10^{-6}$  or HQ of 1).

**Surface Soil.** Ten semivolatile organic compounds, seven pesticide compounds and 20 inorganic analytes were detected in the surface soil samples collected and analyzed for AOI 27. Arsenic, copper, and zinc were detected at concentrations in excess of NAS Cecil Field inorganic background data set values. Arsenic was detected at concentrations in excess of FDEP SCTLs in three surface soil samples. No other compounds were detected at concentrations in excess of SCTLs.

Arsenic is naturally occurring in soil at NAS Cecil Field, and with the exception of samples 58S00301 and 58S00401, the concentrations of arsenic detected in all other samples collected at AOI 27 were below the background surface soil screening value of 2.04 milligrams per kilogram (mg/kg). The concentrations of arsenic detected in samples 58S00301 and 58S00401 were 2.1 and 4.9 milligrams per kilogram (mg/kg), respectively. In addition, the concentration of total recoverable petroleum hydrocarbons (TRPH) detected in sample 58S00301 was 5,900 mg/kg, which exceeds the FDEP SCTL of 350 mg/kg.

A comparison between concentrations of detected analytes in surface soil and RBCs for surface soil and FDEP SCTLs is presented in Appendix A. A cumulative noncancer risk or hazard index (HI) of less than 1, and an ELCR of  $1 \times 10^{-5}$ , were

calculated based upon RBCs for surface soil for all detected compounds and analytes.

Groundwater. Eleven inorganic analytes were detected in the groundwater sample collected in the study area. Calcium and zinc were detected at concentrations in excess of NAS Cecil Field background concentration data set values. GCTLs were not exceeded for these analytes. No organic compounds were detected.

A comparison between concentrations of detected analytes in groundwater and RBCs for tap water and FDEP GCTLs is presented in Appendix A. There is no HI or ELCR associated with a potential groundwater exposure at this site because no contaminants were detected above background values.

3.2 ECOLOGICAL PRE. Potential exposure pathways and ecological habitat associated with the Public Works Maintenance Contractor Area were characterized by ABB-ES (presently HLA) ecological risk assessors in June 1996. AOI 27 is surrounded by areas of maintained grass to the south and east, pavement to the west, and is adjoined by Building 201 to the north.

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 AOI 27.

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. No complete exposure pathways to groundwater were identified within the study area. Due to the limited extent and significance of the habitat associated with the study area no further ecological risk evaluation was conducted.

#### 4.0 CONCLUSIONS AND RECOMMENDATIONS

Concentrations of analytes detected in groundwater downgradient of Building 201 do not represent a hazard to human health or the environment. However, arsenic was detected in surface soil at concentrations in excess of the NAS Cecil Field background screening value and the FDEP SCTL at sample locations 58S00301 and 58S00401. In addition, the TRPH concentration of 5,900 mg/kg in surface soil sample 58S00301 exceeds the FDEP SCTL of 350 mg/kg.

Contaminated surface soil at AOI 27 and Building 201 should be delineated, excavated, and disposed of properly. AOI-27 and Building 201 should be reclassified to 5/Yellow, to indicate that a removal action is required.

## REFERENCES

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- USEPA. 1995a. *Region IV Waste Management Division Preliminary Risk Evaluation, Ecological Risk Assessment, Supplemental Guidance to RAGS: Region IV Bulletin No. 1* (November).
- USEPA. 1995b. *Region IV, Waste Management Division. Chronic Fresh Water/Surface Water Screening Values for Hazardous Waste Sites, Supplemental Guidance to RAGS: Region IV Bulletin Number 2* (November).
- USEPA. 1996. *Region III Risk-Based Screening Table, Technical Guidance Manual. Risk Assessment. EPA/903/R-93-001* (May).

**APPENDIX A**

**SOIL BORING LOGS AND PRELIMINARY RISK EVALUATION TABLES**

TITLE: NAS Cecil Field BRAC		LOG of WELL: CEF-81-4S	BORING NO. CEF-81-4S
CLIENT: SOUTHDIVNAVFACENCOM			PROJECT NO: 08520-85
CONTRACTOR: Alliance Environmental, Inc.		DATE STARTED: 10-24-96	COMPLTD: 10-24-96
METHOD: Auger	CASE SIZE: 2 in.	SCREEN INT.: 5 - 15 ft.	PROTECTION LEVEL: 0
TOC ELEV.: FT.	MONITOR INST.: PID	TOT DPTH: 16.0FT.	DPTH TO $\nabla$ 6.5 FT.
LOGGED BY: R. Holloway	WELL DEVELOPMENT DATE: 10-24-96		SITE: 58 - 81 FD Maintenance Bldg

DEPTH F.T.	LABORATORY SAMPLE ID.	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
1			0	SILTY SAND (SM): 100%, quartz, light to dark gray, fine- to very fine-grained, sub-angular to sub-rounded.		SM		
2			0				posthole	
3			0				posthole	
4			0	CLAYEY SAND (SC): 100%, quartz, light gray, very fine-grained, sub- angular to sub-rounded, moist, iron-oxide staining present.		SC	5,9,8,12	
5			0					
6			0	SILTY SAND (SM): 100%, quartz, light to dark gray, fine- to very fine-grained, sub-angular to sub-rounded.		SM	3,6,8,8	
7			0					
8			0					
9								
10								
11								
12								
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**BRAC Preliminary Risk Evaluation Table for Analytes Detected in Surface Soil  
Building 201 and AOI-27, Naval Air Station Cecil Field**

Analyte <sup>1</sup>	Samples					Screening Values			Calculated Risk Values <sup>2</sup>	
	58S00101	58S00201	58S00301	58S00401	58D00201	BKGRD	SCTL	RBC(R)	ELCR	HI
<b>SemiVolatile Organic Compounds</b>										
Benzo (a) anthracene				0.084			1.4	0.88 c		
Benzo (a) pyrene				0.071	0.058		0.1	0.088 c		
Benzo (b) fluoranthene				0.097	0.09		1.4	0.88 c		
Benzo (k) fluoranthene				0.039			15	8.8 c		
Chrysene				0.091	0.055		140	88 c		
Fluoranthene				0.19	0.054		2800	3100 n		
Indeno (1,2,3-cd) pyrene				0.037			1.5	0.88 c		
Phenanthrene				0.095			1900			
Pyrene				0.19	0.089		2200	2300 n		
bis(2-Ethylhexyl) phthalate					0.048		75	46 c		
<b>Pesticides/PCBs</b>										
4,4-DDE			0.0028	0.0045	0.0067		3.2	1.9 c		
4,4-DDT		0.00067	0.0046	0.0081			3.2	1.9 c		
Aldrin			0.0003	0.00025			0.06	0.038 c		
Endrin ketone			0.00019				21	24 n		
Methoxychlor				0.0011			380	390 n		
alpha-Chlordane			0.00042		0.0015		3	0.49 c		
gamma-Chlordane			0.0004				3	0.49 c		
<b>Inorganic Analytes</b>										
Aluminum	197	190	629	589	3550	4432.5	72000	78000 n		
Antimony			0.86			9.44	26	31 n		
*Arsenic		1.4	2.1	4.9	0.61	2.04	0.8	0.43 c	1 E-5	
Barium	2.7	1.9	13.5	18.1	6.3	14.4	105	5500 n		
Cadmium			0.38	0.51	0.38	1.72	75	39 n		
Calcium	1590	592	1970	5430	6130	9.44	-			
Chromium	1.2	1.2	4	1.5	7.7	7.75	290	390 n		
Cobalt			0.66			3.11	4700	4700 n		
*Copper		0.36	3.9	8.1	6	5.97	105	3100 n		
Iron	93.1	277	847	381	1170	1486	23000	23000 n		
Lead	1.4	2	46.4	17.2	30.6	196.9	500			
Magnesium	29.1	23.1	177	50.9	126	328.65	-			
Manganese	1.6	2.3	18.2	4.2	9	21.95	1600	1800 n		
Mercury				0.06		0.16	3.7	23 n		
Nickel			0.75	0.49	2.1	3.89	105	1600 n		
Potassium			42.9		31.2	101.8	-			
Sodium	35		38.3		28	343	-			
Thallium			0.86		0.85	2.84	-			
Vanadium	0.67	0.75	2	0.89	5.1	6.3	15	550 n		
*Zinc	3.2	5.3	38.6	67.2	48.4	36.5	23000	23000 n		
* Total petroleum hydrocarbons	31	39	5900		86		350			

Sum= 1 E-5 0

**Notes:**

<sup>1</sup> All detected analytes are reported. Concentrations and screening values are expressed in mg/kg

<sup>2</sup> ELCR and HI 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)

HI - calculated Hazard Index for non-carcinogenic analytes (HI = detected concentration/RBC(R))

**BRAC Preliminary Risk Evaluation Table for Analytes Detected in Groundwater  
Building 201 and AOI-27, Naval Air Station Cecil Field**

Analyte <sup>1</sup>	Screening Values				Calculated Risk Values <sup>2</sup>	
	58G00401	BKGRD	GCTL	RBC(T)	ELCR	HI
<b>Inorganic Analytes</b>						
Aluminum	103	13101.5	200	37000 n		
Barium	24.3	88.2	2000	2600 n		
*Calcium	46500	43000				
Cobalt	1.4	12.75	420	2200 n		
Iron	36.7	7764.5	300	11000 n		
Magnesium	3670	10005				
Manganese	48.9	49.3	50	840		
Potassium	1360	4327				
*Thallium	3.6	13.25	2	2.9 n		
Vanadium	6.3	20.15	49	260 n		
*Zinc	53	51.4	5000	11000		
				Sum-	0 E+0	0

**Notes:**

<sup>1</sup> All detected analytes are reported. Concentrations and screening values are expressed in ug/l

<sup>2</sup>ELCR and HI are only calculated for analytes detected at concentrations in excess of BKGRD and GWCTL

\* - \* - Background screening criteria or GWCTLs 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)

HI - calculated Hazard Index for non-carcinogenic analytes

(HI = maximum detected concentration/RBC(T))

**APPENDIX B**  
**LABORATORY ANALYTICAL DATA**

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
 SURFACE SOIL -- VOLATILES -- REPORT REQUEST NO. 9991

Lab Sample Number: Site Locator Collect Date:	C8541 CECILBRAC3 58S00101 13-FEB-97			C8542 CECILBRAC3 58S00201 13-FEB-97			C8543 CECILBRAC3 58S00301 13-FEB-97			C85JP CECILBRAC3 58S00401 13-FEB-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
CLP VOLATILES 90-SOW												
Chloromethane	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Bromomethane	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Vinyl chloride	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Chloroethane	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Methylene chloride	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Acetone	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Carbon disulfide	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
1,1-Dichloroethene	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
1,1-Dichloroethane	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
1,2-Dichloroethene (total)	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Chloroform	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
1,2-Dichloroethane	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
2-Butanone	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
1,1,1-Trichloroethane	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Carbon tetrachloride	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Bromodichloromethane	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
1,2-Dichloropropane	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
cis-1,3-Dichloropropene	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Trichloroethene	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Dibromochloromethane	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
1,1,2-Trichloroethane	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Benzene	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
trans-1,3-Dichloropropene	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Bromoform	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
4-Methyl-2-pentanone	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
2-Hexanone	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Tetrachloroethene	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Toluene	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
1,1,2,2-Tetrachloroethane	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Chlorobenzene	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Ethylbenzene	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Styrene	11	U	ug/kg	11	10	U	ug/kg	10	11	U	ug/kg	11
Xylenes (total)	11	U	ug/kg	11	10	U	ug/kg	10	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 -- FACILITY 201 & AREA OF INTEREST 27  
 SURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 9992

Lab Sample Number:	C8541			C8542			C8542RE			C8543		
Site	CECILBRAC3			CECILBRAC3			CECILBRAC3			CECILBRAC3		
Locator	58S00101			58S00201			58S00201RE			58S00301		
Collect Date:	13-FEB-97			13-FEB-97			13-FEB-97			13-FEB-97		
	VALUE	QUAL UNITS	DL									
CLP SEMIVOLATILES 90-S0W												
Phenol	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
bis(2-Chloroethyl) ether	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2-Chlorophenol	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
1,3-Dichlorobenzene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
1,4-Dichlorobenzene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
1,2-Dichlorobenzene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2-Methylphenol	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2,2-oxybis(1-Chloropropane)	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
4-Methylphenol	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
N-Nitroso-di-n-propylamine	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Hexachloroethane	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Nitrobenzene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Isophorone	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2-Nitrophenol	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2,4-Dimethylphenol	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
bis(2-Chloroethoxy) methane	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2,4-Dichlorophenol	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
1,2,4-Trichlorobenzene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Naphthalene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
4-Chloroaniline	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Hexachlorobutadiene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
4-Chloro-3-methylphenol	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2-Methylnaphthalene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Hexachlorocyclopentadiene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2,4,6-Trichlorophenol	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2,4,5-Trichlorophenol	860 U	ug/kg	860	840 U	ug/kg	840	840 U	ug/kg	840	860 U	ug/kg	860
2-Chloronaphthalene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2-Nitroaniline	860 U	ug/kg	860	840 U	ug/kg	840	840 U	ug/kg	840	860 U	ug/kg	860
Dimethylphthalate	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Acenaphthylene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2,6-Dinitrotoluene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
3-Nitroaniline	860 U	ug/kg	860	840 U	ug/kg	840	840 U	ug/kg	840	860 U	ug/kg	860
Acenaphthene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2,4-Dinitrophenol	860 U	ug/kg	860	840 U	ug/kg	840	840 U	ug/kg	840	860 U	ug/kg	860
4-Nitrophenol	860 U	ug/kg	860	840 U	ug/kg	840	840 U	ug/kg	840	860 U	ug/kg	860
Dibenzofuran	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
2,4-Dinitrotoluene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Diethylphthalate	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
4-Chlorophenyl-phenylether	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Fluorene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
4-Nitroaniline	860 U	ug/kg	860	840 U	ug/kg	840	840 U	ug/kg	840	860 U	ug/kg	860
4,6-Dinitro-2-methylphenol	860 U	ug/kg	860	840 U	ug/kg	840	840 U	ug/kg	840	860 U	ug/kg	860
N-Nitrosodiphenylamine	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
4-Bromophenyl-phenylether	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Hexachlorobenzene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Pentachlorophenol	860 U	ug/kg	860	840 U	ug/kg	840	840 U	ug/kg	840	860 U	ug/kg	860
Phenanthrene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Anthracene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Carbazole	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Di-n-butylphthalate	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
 SURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 9992

Lab Sample Number:  
 Site  
 Locator  
 Collect Date:

	C8541			C8542			C8542RE			C8543		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
Fluoranthene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Pyrene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Butylbenzylphthalate	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
3,3-Dichlorobenzidine	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Benzo (a) anthracene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Chrysene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
bis(2-Ethylhexyl) phthalate	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Di-n-octylphthalate	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Benzo (b) fluoranthene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Benzo (k) fluoranthene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Benzo (a) pyrene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Indeno (1,2,3-cd) pyrene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Dibenzo (a,h) anthracene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350
Benzo (g,h,i) perylene	360 U	ug/kg	360	340 U	ug/kg	340	340 U	ug/kg	340	350 U	ug/kg	350

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

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
 SURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 9992

Lab Sample Number:	C8543RE	C85JP
Site	CECILBRAC3	CECILBRAC3
Locator	58S00301RE	58S00401
Collect Date:	13-FEB-97	13-FEB-97
	VALUE QUAL UNITS DL	VALUE QUAL UNITS DL

CLP SEMIVOLATILES 90-SOW

Phenol	350 U	ug/kg	350	360 U	ug/kg	360
bis(2-Chloroethyl) ether	350 U	ug/kg	350	360 U	ug/kg	360
2-Chlorophenol	350 U	ug/kg	350	360 U	ug/kg	360
1,3-Dichlorobenzene	350 U	ug/kg	350	360 U	ug/kg	360
1,4-Dichlorobenzene	350 U	ug/kg	350	360 U	ug/kg	360
1,2-Dichlorobenzene	350 U	ug/kg	350	360 U	ug/kg	360
2-Methylphenol	350 U	ug/kg	350	360 U	ug/kg	360
2,2-oxybis(1-Chloropropane)	350 U	ug/kg	350	360 U	ug/kg	360
4-Methylphenol	350 U	ug/kg	350	360 U	ug/kg	360
N-Nitroso-di-n-propylamine	350 U	ug/kg	350	360 U	ug/kg	360
Hexachloroethane	350 U	ug/kg	350	360 U	ug/kg	360
Nitrobenzene	350 U	ug/kg	350	360 U	ug/kg	360
Isophorone	350 U	ug/kg	350	360 U	ug/kg	360
2-Nitrophenol	350 U	ug/kg	350	360 U	ug/kg	360
2,4-Dimethylphenol	350 U	ug/kg	350	360 U	ug/kg	360
bis(2-Chloroethoxy) methane	350 U	ug/kg	350	360 U	ug/kg	360
2,4-Dichlorophenol	350 U	ug/kg	350	360 U	ug/kg	360
1,2,4-Trichlorobenzene	350 U	ug/kg	350	360 U	ug/kg	360
Naphthalene	350 U	ug/kg	350	360 U	ug/kg	360
4-Chloroaniline	350 U	ug/kg	350	360 U	ug/kg	360
Hexachlorobutadiene	350 U	ug/kg	350	360 U	ug/kg	360
4-Chloro-3-methylphenol	350 U	ug/kg	350	360 U	ug/kg	360
2-Methylnaphthalene	350 U	ug/kg	350	360 U	ug/kg	360
Hexachlorocyclopentadiene	350 U	ug/kg	350	360 U	ug/kg	360
2,4,6-Trichlorophenol	350 U	ug/kg	350	360 U	ug/kg	360
2,4,5-Trichlorophenol	860 U	ug/kg	860	890 U	ug/kg	890
2-Chloronaphthalene	350 U	ug/kg	350	360 U	ug/kg	360
2-Nitroaniline	860 U	ug/kg	860	890 U	ug/kg	890
Dimethylphthalate	350 U	ug/kg	350	360 U	ug/kg	360
Acenaphthylene	350 U	ug/kg	350	360 U	ug/kg	360
2,6-Dinitrotoluene	350 U	ug/kg	350	360 U	ug/kg	360
3-Nitroaniline	860 U	ug/kg	860	890 U	ug/kg	890
Acenaphthene	350 U	ug/kg	350	360 U	ug/kg	360
2,4-Dinitrophenol	860 U	ug/kg	860	890 U	ug/kg	890
4-Nitrophenol	860 U	ug/kg	860	890 U	ug/kg	890
Dibenzofuran	350 U	ug/kg	350	360 U	ug/kg	360
2,4-Dinitrotoluene	350 U	ug/kg	350	360 U	ug/kg	360
Diethylphthalate	350 U	ug/kg	350	360 U	ug/kg	360
4-Chlorophenyl-phenylether	350 U	ug/kg	350	360 U	ug/kg	360
Fluorene	350 U	ug/kg	350	360 U	ug/kg	360

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
 SURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 9992

Lab Sample Number:  
 Site  
 Locator  
 Collect Date:

C8543RE  
 CECILBRAC3  
 58S00301RE  
 13-FEB-97

C85JP  
 CECILBRAC3  
 58S00401  
 13-FEB-97

	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL
4-Nitroaniline	860 U	ug/kg	860	890 U	ug/kg	890
4,6-Dinitro-2-methylphenol	860 U	ug/kg	860	890 U	ug/kg	890
N-Nitrosodiphenylamine	350 U	ug/kg	350	360 U	ug/kg	360
4-Bromophenyl-phenylether	350 U	ug/kg	350	360 U	ug/kg	360
Hexachlorobenzene	350 U	ug/kg	350	360 U	ug/kg	360
Pentachlorophenol	860 U	ug/kg	860	890 U	ug/kg	890
Phenanthrene	350 U	ug/kg	350	95 J	ug/kg	360
Anthracene	350 U	ug/kg	350	360 U	ug/kg	360
Carbazole	350 U	ug/kg	350	360 U	ug/kg	360
Di-n-butylphthalate	350 U	ug/kg	350	360 U	ug/kg	360
Fluoranthene	350 U	ug/kg	350	190 J	ug/kg	360
Pyrene	350 U	ug/kg	350	190 J	ug/kg	360
Butylbenzylphthalate	350 U	ug/kg	350	360 U	ug/kg	360
3,3-Dichlorobenzidine	350 U	ug/kg	350	360 U	ug/kg	360
Benzo (a) anthracene	350 U	ug/kg	350	84 J	ug/kg	360
Chrysene	350 U	ug/kg	350	91 J	ug/kg	360
bis(2-Ethylhexyl) phthalate	350 U	ug/kg	350	360 U	ug/kg	360
Di-n-octylphthalate	350 U	ug/kg	350	360 U	ug/kg	360
Benzo (b) fluoranthene	350 U	ug/kg	350	97 J	ug/kg	360
Benzo (k) fluoranthene	350 U	ug/kg	350	39 J	ug/kg	360
Benzo (a) pyrene	350 U	ug/kg	350	71 J	ug/kg	360
Indeno (1,2,3-cd) pyrene	350 U	ug/kg	350	37 J	ug/kg	360
Dibenzo (a,h) anthracene	350 U	ug/kg	350	360 U	ug/kg	360
Benzo (g,h,i) perylene	350 U	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 201 & AREA OF INTEREST 27  
 SURFACE SOIL -- PESTICIDES & PCBs -- REPORT REQUEST NO. 9993

Lab Sample Number:	C8541			C8542			C8543			C85JP		
Site	CECILBRAC3			CECILBRAC3			CECILBRAC3			CECILBRAC3		
Locator	58S00101			58S00201			58S00301			58S00401		
Collect Date:	13-FEB-97			13-FEB-97			13-FEB-97			13-FEB-97		
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL

CLP PESTICIDES/PCBS 90-SOW

alpha-BHC	1.8 U	ug/kg	1.8	1.7 U	ug/kg	1.7	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
beta-BHC	1.8 U	ug/kg	1.8	1.7 U	ug/kg	1.7	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
delta-BHC	1.8 U	ug/kg	1.8	1.7 U	ug/kg	1.7	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
gamma-BHC (Lindane)	1.8 U	ug/kg	1.8	1.7 U	ug/kg	1.7	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
Heptachlor	1.8 U	ug/kg	1.8	1.7 U	ug/kg	1.7	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
Aldrin	1.8 U	ug/kg	1.8	1.7 U	ug/kg	1.7	.3 J	ug/kg	1.8	.25 J	ug/kg	1.8
Heptachlor epoxide	1.8 U	ug/kg	1.8	1.7 U	ug/kg	1.7	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
Endosulfan I	1.8 U	ug/kg	1.8	1.7 U	ug/kg	1.7	1.8 U	ug/kg	1.8	1.8 U	ug/kg	1.8
Dieldrin	3.6 U	ug/kg	3.6	3.5 U	ug/kg	3.5	3.6 U	ug/kg	3.6	3.7 U	ug/kg	3.7
4,4-DDE	3.6 U	ug/kg	3.6	3.5 U	ug/kg	3.5	2.8 J	ug/kg	3.6	4.5	ug/kg	3
Endrin	3.6 U	ug/kg	3.6	3.5 U	ug/kg	3.5	3.6 U	ug/kg	3.6	3.7 U	ug/kg	3.7
Endosulfan II	3.6 U	ug/kg	3.6	3.5 U	ug/kg	3.5	3.6 U	ug/kg	3.6	3.7 U	ug/kg	3.7
4,4-DDD	3.6 U	ug/kg	3.6	3.5 U	ug/kg	3.5	3.6 U	ug/kg	3.6	3.7 U	ug/kg	3.7
Endosulfan sulfate	3.6 U	ug/kg	3.6	3.5 U	ug/kg	3.5	3.6 U	ug/kg	3.6	3.7 U	ug/kg	3.7
4,4-DDT	3.6 U	ug/kg	3.6	.67 J	ug/kg	3.5	4.6 J	ug/kg	3.6	8.1	ug/kg	3
Methoxychlor	18 U	ug/kg	18	17 U	ug/kg	17	18 U	ug/kg	18	1.1 J	ug/kg	18
Endrin ketone	3.6 U	ug/kg	3.6	3.5 U	ug/kg	3.5	.19 J	ug/kg	3.6	3.7 U	ug/kg	3.7
Endrin aldehyde	3.6 U	ug/kg	3.6	3.5 U	ug/kg	3.5	3.6 U	ug/kg	3.6	3.7 U	ug/kg	3.7
alpha-Chlordane	1.8 U	ug/kg	1.8	1.7 U	ug/kg	1.7	.42 J	ug/kg	1.8	1.8 U	ug/kg	1.8
gamma-Chlordane	1.8 U	ug/kg	1.8	1.7 U	ug/kg	1.7	.4 J	ug/kg	1.8	1.8 U	ug/kg	1.8
Toxaphene	180 U	ug/kg	180	170 U	ug/kg	170	180 U	ug/kg	180	180 U	ug/kg	180
Aroclor-1016	36 U	ug/kg	36	35 U	ug/kg	35	36 U	ug/kg	36	37 U	ug/kg	37
Aroclor-1221	72 U	ug/kg	72	70 U	ug/kg	70	72 U	ug/kg	72	73 U	ug/kg	73
Aroclor-1232	36 U	ug/kg	36	35 U	ug/kg	35	36 U	ug/kg	36	37 U	ug/kg	37
Aroclor-1242	36 U	ug/kg	36	35 U	ug/kg	35	36 U	ug/kg	36	37 U	ug/kg	37
Aroclor-1248	36 U	ug/kg	36	35 U	ug/kg	35	36 U	ug/kg	36	37 U	ug/kg	37
Aroclor-1254	36 U	ug/kg	36	35 U	ug/kg	35	36 U	ug/kg	36	37 U	ug/kg	37
Aroclor-1260	36 U	ug/kg	36	35 U	ug/kg	35	36 U	ug/kg	36	37 U	ug/kg	37

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

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
 SURFACE SOIL -- PESTICIDES & PCBs -- REPORT REQUEST NO. 9993

Lab Sample Number: C85JPRE  
 Site: CECILBRAC3  
 Locator: 58S00401RE  
 Collect Date: 13-FEB-97

VALUE QUAL UNITS DL

CLP PESTICIDES/PCBS 90-SOW

alpha-BHC	1.8	U	ug/kg	1.8
beta-BHC	1.8	U	ug/kg	1.8
delta-BHC	1.8	U	ug/kg	1.8
gamma-BHC (Lindane)	1.8	U	ug/kg	1.8
Heptachlor	1.8	U	ug/kg	1.8
Aldrin	1.8	U	ug/kg	1.8
Heptachlor epoxide	1.8	U	ug/kg	1.8
Endosulfan I	1.8	U	ug/kg	1.8
Dieldrin	3.7	U	ug/kg	3.7
4,4-DDE	3.6	J	ug/kg	3
Endrin	3.7	U	ug/kg	3.7
Endosulfan II	3.7	U	ug/kg	3.7
4,4-DDD	3.7	U	ug/kg	3.7
Endosulfan sulfate	3.7	U	ug/kg	3.7
4,4-DDT	4.7		ug/kg	3
Methoxychlor	18	U	ug/kg	18
Endrin ketone	3.7	U	ug/kg	3.7
Endrin aldehyde	3.7	U	ug/kg	3.7
alpha-Chlordane	1.8	U	ug/kg	1.8
gamma-Chlordane	1.8	U	ug/kg	1.8
Toxaphene	180	U	ug/kg	180
Aroclor-1016	37	U	ug/kg	37
Aroclor-1221	74	U	ug/kg	74
Aroclor-1232	37	U	ug/kg	37
Aroclor-1242	37	U	ug/kg	37
Aroclor-1248	37	U	ug/kg	37
Aroclor-1254	37	U	ug/kg	37
Aroclor-1260	37	U	ug/kg	37

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

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
 SURFACE SOIL -- INORGANICS -- REPORT REQUEST NO. 9994

Lab Sample Number:  
 Site  
 Locator  
 Collect Date:

C8541  
 CECILBRAC3  
 58S00101  
 13-FEB-97  
 VALUE QUAL UNITS DL

C8542  
 CECILBRAC3  
 58S00201  
 13-FEB-97  
 VALUE QUAL UNITS DL

C8543  
 CECILBRAC3  
 58S00301  
 13-FEB-97  
 VALUE QUAL UNITS DL

C85JP  
 CECILBRAC3  
 58S00401  
 13-FEB-97  
 VALUE QUAL UNITS DL

CLP METALS AND CYANIDE

	VALUE	QUAL UNITS	DL									
Aluminum	197	mg/kg	40	190	mg/kg	40	629	mg/kg	40	589	mg/kg	40
Antimony	.65 U	mg/kg	12	.63 U	mg/kg	12	.86 J	mg/kg	12	.67 U	mg/kg	12
Arsenic	.43 U	mg/kg	2	1.4 J	mg/kg	2	2.1 J	mg/kg	2	4.9	mg/kg	2
Barium	2.7 J	mg/kg	40	1.9 J	mg/kg	40	13.5 J	mg/kg	40	18.1 J	mg/kg	40
Beryllium	.22 U	mg/kg	1	.21 U	mg/kg	1	.21 U	mg/kg	1	.22 U	mg/kg	1
Cadmium	.22 U	mg/kg	1	.21 U	mg/kg	1	.38 J	mg/kg	1	.51 J	mg/kg	1
Calcium	1590	mg/kg	1000	592 J	mg/kg	1000	1970	mg/kg	1000	5430	mg/kg	1000
Chromium	1.2 J	mg/kg	2	1.2 J	mg/kg	2	4	mg/kg	2	1.5 J	mg/kg	2
Cobalt	.22 U	mg/kg	10	.21 U	mg/kg	10	.66 J	mg/kg	10	.22 U	mg/kg	10
Copper	.22 U	mg/kg	5	.36 J	mg/kg	5	3.9 J	mg/kg	5	8.1	mg/kg	5
Iron	93.1	mg/kg	20	277	mg/kg	20	847	mg/kg	20	381	mg/kg	20
Lead	1.4	mg/kg	.6	2	mg/kg	.6	46.4	mg/kg	.6	17.2	mg/kg	.6
Magnesium	29.1 J	mg/kg	1000	23.1 J	mg/kg	1000	177 J	mg/kg	1000	50.9 J	mg/kg	1000
Manganese	1.6 J	mg/kg	3	2.3 J	mg/kg	3	18.2	mg/kg	3	4.2	mg/kg	3
Mercury	.05 U	mg/kg	.1	.05 U	mg/kg	.1	.05 U	mg/kg	.1	.06 J	mg/kg	.1
Nickel	.43 U	mg/kg	8	.42 U	mg/kg	8	.75 J	mg/kg	8	.49 J	mg/kg	8
Potassium	10.1 U	mg/kg	1000	9.9 U	mg/kg	1000	42.9 J	mg/kg	1000	10.4 U	mg/kg	1000
Selenium	.86 U	mg/kg	1	.84 U	mg/kg	1	.86 U	mg/kg	1	.89 U	mg/kg	1
Silver	.22 U	mg/kg	2	.21 U	mg/kg	2	.21 U	mg/kg	2	.22 U	mg/kg	2
Sodium	35 J	mg/kg	1000	23.3 U	mg/kg	1000	38.3 J	mg/kg	1000	24.6 U	mg/kg	1000
Thallium	.65 U	mg/kg	2	.63 U	mg/kg	2	.86 J	mg/kg	2	.67 U	mg/kg	2
Vanadium	.67 J	mg/kg	10	.75 J	mg/kg	10	2 J	mg/kg	10	.89 J	mg/kg	10
Zinc	3.2 J	mg/kg	4	5.3	mg/kg	4	38.6	mg/kg	4	67.2	mg/kg	4
Cyanide	.06 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 -- FACILITY 201 & AREA OF INTEREST 27  
 SURFACE SOIL -- TRPH -- REPORT REQUEST NO. 9995

Lab Sample Number:	A7B1301700		A7B1301700		A7B1301700	
Site	CECILBRAC3		CECILBRAC3		CECILBRAC3	
Locator	58S00101		58S00201		58S00301	
Collect Date:	12-FEB-97		12-FEB-97		12-FEB-97	
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

TPH									
Total petroleum hydrocarbons	31	mg/kg	11	39	mg/kg	10	5900	mg/kg	540

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

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
 SEDIMENT -- VOLATILES -- REPORT REQUEST NO. 9996

Lab Sample Number:	C832L		C832LRE		
Site	CECILBRAC3		CECILBRAC3		
Locator	58D00201		58D00201RE		
Collect Date:	08-FEB-97		08-FEB-97		
	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS
				DL	

CLP VOLATILES 90-SQW

Chloromethane	12 U	ug/kg	12	12 U	ug/kg	12
Bromomethane	12 U	ug/kg	12	12 U	ug/kg	12
Vinyl chloride	12 U	ug/kg	12	12 U	ug/kg	12
Chloroethane	12 U	ug/kg	12	12 U	ug/kg	12
Methylene chloride	12 U	ug/kg	12	12 U	ug/kg	12
Acetone	12 U	ug/kg	12	12 U	ug/kg	12
Carbon disulfide	12 U	ug/kg	12	12 U	ug/kg	12
1,1-Dichloroethene	12 U	ug/kg	12	12 U	ug/kg	12
1,1-Dichloroethane	12 U	ug/kg	12	12 U	ug/kg	12
1,2-Dichloroethene (total)	12 U	ug/kg	12	12 U	ug/kg	12
Chloroform	12 U	ug/kg	12	12 U	ug/kg	12
1,2-Dichloroethane	12 U	ug/kg	12	12 U	ug/kg	12
2-Butanone	12 U	ug/kg	12	12 U	ug/kg	12
1,1,1-Trichloroethane	12 U	ug/kg	12	12 U	ug/kg	12
Carbon tetrachloride	12 U	ug/kg	12	12 U	ug/kg	12
Bromodichloromethane	12 U	ug/kg	12	12 U	ug/kg	12
1,2-Dichloropropane	12 U	ug/kg	12	12 U	ug/kg	12
cis-1,3-Dichloropropene	12 U	ug/kg	12	12 U	ug/kg	12
Trichloroethene	12 U	ug/kg	12	12 U	ug/kg	12
Dibromochloromethane	12 U	ug/kg	12	12 U	ug/kg	12
1,1,2-Trichloroethane	12 U	ug/kg	12	12 U	ug/kg	12
Benzene	12 U	ug/kg	12	12 U	ug/kg	12
trans-1,3-Dichloropropene	12 U	ug/kg	12	12 U	ug/kg	12
Bromoform	12 U	ug/kg	12	12 U	ug/kg	12
4-Methyl-2-pentanone	12 U	ug/kg	12	12 U	ug/kg	12
2-Hexanone	12 U	ug/kg	12	12 U	ug/kg	12
Tetrachloroethene	12 U	ug/kg	12	12 U	ug/kg	12
Toluene	12 U	ug/kg	12	12 U	ug/kg	12
1,1,2,2-Tetrachloroethane	12 U	ug/kg	12	12 U	ug/kg	12
Chlorobenzene	12 U	ug/kg	12	12 U	ug/kg	12
Ethylbenzene	12 U	ug/kg	12	12 U	ug/kg	12
Styrene	12 U	ug/kg	12	12 U	ug/kg	12
Xylenes (total)	12 U	ug/kg	12	12 U	ug/kg	12

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 R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
 SEDIMENT -- SEMIVOLATILES -- REPORT REQUEST NO. 9997

Lab Sample Number: C832L  
 Site: CECILBRAC3  
 Locator: 58D00201  
 Collect Date: 08-FEB-97

VALUE QUAL UNITS DL

CLP SEMIVOLATILES 90-SQW

Phenol	410 U	ug/kg	410
bis(2-Chloroethyl) ether	410 U	ug/kg	410
2-Chlorophenol	410 U	ug/kg	410
1,3-Dichlorobenzene	410 U	ug/kg	410
1,4-Dichlorobenzene	410 U	ug/kg	410
1,2-Dichlorobenzene	410 U	ug/kg	410
2-Methylphenol	410 U	ug/kg	410
2,2-oxybis(1-Chloropropane)	410 U	ug/kg	410
4-Methylphenol	410 U	ug/kg	410
N-Nitroso-di-n-propylamine	410 U	ug/kg	410
Hexachloroethane	410 U	ug/kg	410
Nitrobenzene	410 U	ug/kg	410
Isophorone	410 U	ug/kg	410
2-Nitrophenol	410 U	ug/kg	410
2,4-Dimethylphenol	410 U	ug/kg	410
bis(2-Chloroethoxy) methane	410 U	ug/kg	410
2,4-Dichlorophenol	410 U	ug/kg	410
1,2,4-Trichlorobenzene	410 U	ug/kg	410
Naphthalene	410 U	ug/kg	410
4-Chloroaniline	410 U	ug/kg	410
Hexachlorobutadiene	410 U	ug/kg	410
4-Chloro-3-methylphenol	410 U	ug/kg	410
2-Methylnaphthalene	410 U	ug/kg	410
Hexachlorocyclopentadiene	410 U	ug/kg	410
2,4,6-Trichlorophenol	410 U	ug/kg	410
2,4,5-Trichlorophenol	980 U	ug/kg	980
2-Chloronaphthalene	410 U	ug/kg	410
2-Nitroaniline	980 U	ug/kg	980
Dimethylphthalate	410 U	ug/kg	410
Acenaphthylene	410 U	ug/kg	410
2,6-Dinitrotoluene	410 U	ug/kg	410
3-Nitroaniline	980 U	ug/kg	980
Acenaphthene	410 U	ug/kg	410
2,4-Dinitrophenol	980 U	ug/kg	980
4-Nitrophenol	980 U	ug/kg	980
Dibenzofuran	410 U	ug/kg	410
2,4-Dinitrotoluene	410 U	ug/kg	410
Diethylphthalate	410 U	ug/kg	410
4-Chlorophenyl-phenylether	410 U	ug/kg	410
Fluorene	410 U	ug/kg	410
4-Nitroaniline	980 U	ug/kg	980
4,6-Dinitro-2-methylphenol	980 U	ug/kg	980
N-Nitrosodiphenylamine	410 U	ug/kg	410
4-Bromophenyl-phenylether	410 U	ug/kg	410
Hexachlorobenzene	410 U	ug/kg	410
Pentachlorophenol	980 U	ug/kg	980
Phenanthrene	410 U	ug/kg	410
Anthracene	410 U	ug/kg	410
Carbazole	410 U	ug/kg	410
Di-n-butylphthalate	410 U	ug/kg	410

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
 SEDIMENT -- SEMIVOLATILES -- REPORT REQUEST NO. 9997

Lab Sample Number: C832L  
 Site: CECILBRAC3  
 Locator: 58D00201  
 Collect Date: 08-FEB-97

VALUE QUAL UNITS DL

	VALUE	QUAL	UNITS	DL
Fluoranthene	54	J	ug/kg	410
Pyrene	89	J	ug/kg	410
Butylbenzylphthalate	410	U	ug/kg	410
3,3-Dichlorobenzidine	410	U	ug/kg	410
Benzo (a) anthracene	410	U	ug/kg	410
Chrysene	55	J	ug/kg	410
bis(2-Ethylhexyl) phthalate	48	J	ug/kg	410
Di-n-octylphthalate	410	U	ug/kg	410
Benzo (b) fluoranthene	90	J	ug/kg	410
Benzo (k) fluoranthene	410	U	ug/kg	410
Benzo (a) pyrene	58	J	ug/kg	410
Indeno (1,2,3-cd) pyrene	410	U	ug/kg	410
Dibenzo (a,h) anthracene	410	U	ug/kg	410
Benzo (g,h,i) perylene	410	U	ug/kg	410

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

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
 SEDIMENT -- PESTICIDES & PCBs -- REPORT REQUEST NO. 9998

Lab Sample Number: C832L  
 Site: CECILBRAC3  
 Locator: 58D00201  
 Collect Date: 07-FEB-97

VALUE QUAL UNITS DL

CLP PESTICIDES/PCBS 90-SOW

alpha-BHC	10 U	ug/kg	10
beta-BHC	10 U	ug/kg	10
delta-BHC	10 U	ug/kg	10
gamma-BHC (Lindane)	10 U	ug/kg	10
Heptachlor	10 U	ug/kg	10
Aldrin	10 U	ug/kg	10
Heptachlor epoxide	10 U	ug/kg	10
Endosulfan I	10 U	ug/kg	10
Dieldrin	20 U	ug/kg	20
4,4-DDE	6.7 J	ug/kg	20
Endrin	20 U	ug/kg	20
Endosulfan II	20 U	ug/kg	20
4,4-DDD	20 U	ug/kg	20
Endosulfan sulfate	20 U	ug/kg	20
4,4-DDT	20 U	ug/kg	20
Methoxychlor	100 U	ug/kg	100
Endrin ketone	20 U	ug/kg	20
Endrin aldehyde	20 U	ug/kg	20
alpha-Chlordane	1.5 J	ug/kg	10
gamma-Chlordane	10 U	ug/kg	10
Toxaphene	1000 U	ug/kg	1000
Aroclor-1016	200 U	ug/kg	200
Aroclor-1221	410 U	ug/kg	410
Aroclor-1232	200 U	ug/kg	200
Aroclor-1242	200 U	ug/kg	200
Aroclor-1248	200 U	ug/kg	200
Aroclor-1254	200 U	ug/kg	200
Aroclor-1260	200 U	ug/kg	200

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

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
 SEDIMENT -- INORGANICS -- REPORT REQUEST NO. 9999

Lab Sample Number: C832L  
 Site: CECILBRAC3  
 Locator: 58D00201  
 Collect Date: 08-FEB-97

VALUE QUAL UNITS DL

CLP METALS AND CYANIDE

Aluminum	3550	mg/kg	40
Antimony	.74 U	mg/kg	12
Arsenic	.61 J	mg/kg	2
Barium	6.3 J	mg/kg	40
Beryllium	.25 U	mg/kg	1
Cadmium	.38 J	mg/kg	1
Calcium	6130	mg/kg	1000
Chromium	7.7	mg/kg	2
Cobalt	.25 U	mg/kg	10
Copper	6 J	mg/kg	5
Iron	1170	mg/kg	20
Lead	30.6	mg/kg	.6
Magnesium	126 J	mg/kg	1000
Manganese	9	mg/kg	3
Mercury	.06 U	mg/kg	.1
Nickel	2.1 J	mg/kg	8
Potassium	31.2 J	mg/kg	1000
Selenium	.99 U	mg/kg	1
Silver	.25 U	mg/kg	2
Sodium	28 J	mg/kg	1000
Thallium	.85 J	mg/kg	2
Vanadium	5.1 J	mg/kg	10
Zinc	48.4	mg/kg	4
Cyanide	.07 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 -- FACILITY 201 & AREA OF INTEREST 27  
SEDIMENT -- TRPH -- REPORT REQUEST NO. 10000

Lab Sample Number: A7B0801150  
Site: CECILBRAC3  
Locator: 58D00201  
Collect Date: 07-FEB-97

VALUE QUAL UNITS DL

	VALUE	QUAL	UNITS	DL
TPH Total petroleum hydrocarbons	86		mg/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 -- FACILITY 201 & AREA OF INTEREST 27  
GROUNDWATER -- VOLATILES -- REPORT REQUEST NO. 10001

Lab Sample Number: C80V5  
Site: CECILBRAC3  
Locator: 58G00401  
Collect Date: 04-FEB-97

VALUE QUAL UNITS DL

CLP VOLATILES 90-SOW

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 -- FACILITY 201 & AREA OF INTEREST 27  
GROUNDWATER -- SEMIVOLATILES -- REPORT REQUEST NO. 10002

Lab Sample Number: C80V5  
Site: CECILBRAC3  
Locator: 58G00401  
Collect Date: 04-FEB-97

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 201 & AREA OF INTEREST 27  
GROUNDWATER -- SEMIVOLATILES -- REPORT REQUEST NO. 10002

Lab Sample Number: C80V5  
Site: CECILBRAC3  
Locator: 58G00401  
Collect Date: 04-FEB-97

VALUE QUAL UNITS DL

	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

U = NOT DETECTED J = ESTIMATED VALUE  
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NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
GROUNDWATER -- PESTICIDES & PCBs -- REPORT REQUEST NO. 10003

Lab Sample Number: C80V5  
Site: CECILBRAC3  
Locator: 58G00401  
Collect Date: 04-FEB-97

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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R = RESULT IS REJECTED AND UNUSABLE

NAS CECIL FIELD -- FACILITY 201 & AREA OF INTEREST 27  
GROUNDWATER -- INORGANICS -- REPORT REQUEST NO. 10004

Lab Sample Number: C80V5  
Site: CECILBRAC3  
Locator: 58G00401  
Collect Date: 04-FEB-97

VALUE QUAL UNITS DL

CLP METALS AND CYANIDE

Aluminum	103 J	ug/l	200
Antimony	3 U	ug/l	60
Arsenic	2 U	ug/l	10
Barium	24.3 J	ug/l	200
Beryllium	1 U	ug/l	5
Cadmium	1 U	ug/l	5
Calcium	46500	ug/l	5000
Chromium	1 U	ug/l	10
Cobalt	1.4 J	ug/l	50
Copper	1 U	ug/l	25
Iron	36.7 J	ug/l	100
Lead	1 U	ug/l	3
Magnesium	3670 J	ug/l	5000
Manganese	48.9	ug/l	15
Mercury	.1 U	ug/l	.2
Nickel	2 U	ug/l	40
Potassium	1360 J	ug/l	5000
Selenium	4 U	ug/l	5
Silver	1 U	ug/l	10
Sodium	15500	ug/l	5000
Thallium	3.6 J	ug/l	10
Vanadium	6.3 J	ug/l	50
Zinc	53	ug/l	20
Cyanide	1.2 U	ug/l	10

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R = RESULT IS REJECTED AND UNUSABLE