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NAS CECIL FIELD, FL
5090.3a

CONFIRMATORY SAMPLING REPORT FOR BUILDING 824 OIL-WATER SEPARATOR 824-
OW BASE REALIGNMENT AND CLOSURE UNDERGROUND STORAGE TANK AND
ABOVEGROUND STORAGE TANK GREY SITES NAS CECIL FIELD FL
4/1/1999
HARDING LAWSON ASSOCIATES

CONFIRMATORY SAMPLING REPORT
BUILDING 824, OIL-WATER SEPARATOR 824-OW
BASE REALIGNMENT AND CLOSURE
UNDERGROUND STORAGE TANK AND
ABOVEGROUND STORAGE TANK GRAY SITES
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Unit Identification Code: N60200

Contract No.: N62467-89-D-0317/149

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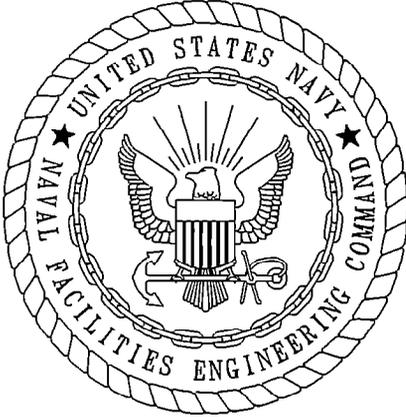
Prepared for:

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Naval Facilities Engineering Command
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April 1999

Revision 0.0



CERTIFICATION OF TECHNICAL
DATA CONFORMITY (MAY 1987)

The Contractor, Harding Lawson Associates, hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/149 are complete and accurate and comply with all requirements of this contract.

DATE: April 6, 1999

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Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Eric A. Blomberg, P.G.
Project Technical Lead

(DFAR 252.227-7036)

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Jacksonville, Florida

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GLOSSARY

bls	below land surface
FDEP	Florida Department of Environmental Protection
NAS	Naval Air Station
OVA	organic vapor analyzer
ppm	parts per million
TRPH	total recoverable petroleum hydrocarbons

1.0 INTRODUCTION

Harding Lawson Associates, under contract to the Southern Division, Naval Facilities Engineering Command, has completed confirmatory sampling for oil-water separator 824-OW at Naval Air Station (NAS) Cecil Field in Jacksonville, Florida. This report summarizes the related field operations, results, conclusions, and recommendations.

Oil-water separator 824-OW is located on the south side of Building 824, the avionics shop (ABB Environmental Services, Inc., 1994) (Figure 1). The installation date and capacity of the oil-water separator are unknown.

2.0 FIELD INVESTIGATION

The confirmatory sampling for oil-water separator 824-OW was initiated in September 1998 and included

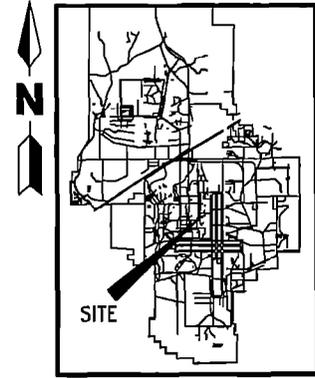
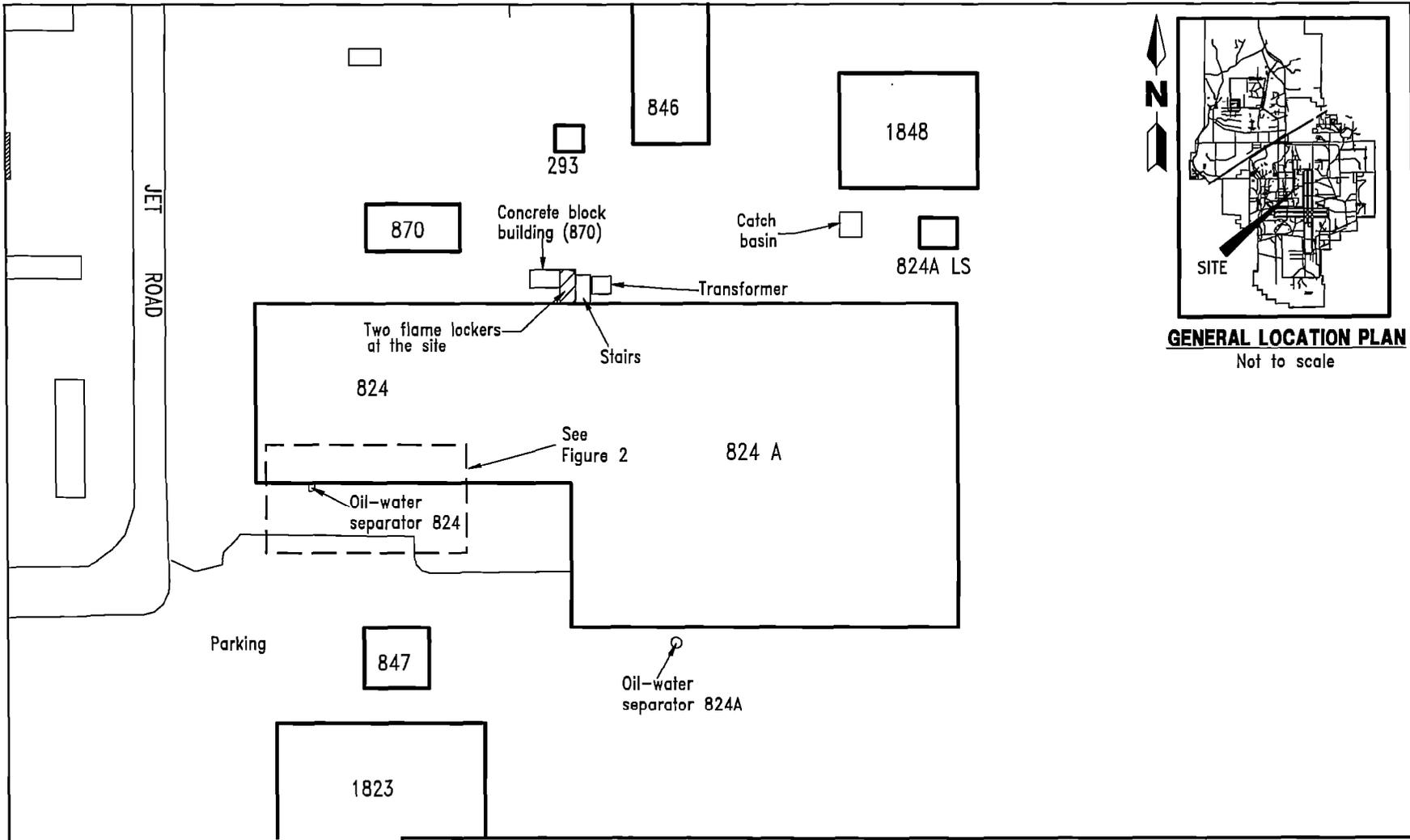
- the advancement of four soil borings to the water table,
- the installation of one monitoring well,
- collection and analysis of one groundwater sample and one subsurface soil sample, and
- collection and analysis of three subsurface soil samples to delineate the extent of contaminated soil above cleanup target levels.

Soil samples were collected from each boring at depth intervals of 1 foot below land surface (bls) and every 2 feet thereafter to the water table. These samples were screened for hydrocarbon vapors with an organic vapor analyzer (OVA).

One subsurface soil sample was collected on October 14, 1998, and analyzed for the used oil group parameters. Sample CEF-824-SB4 was collected from 7 feet bls at the location of soil screening boring SB4, which had the highest OVA concentration.

Three subsurface soil samples, CEF-824-SB5, CEF-824-SB6, and CEF-824-SB7, were collected on February 3, 1999, and analyzed for total recoverable petroleum hydrocarbons (TRPH) to delineate the extent of contaminated soil. The samples were collected just above the water table at 4 feet bls.

One monitoring well, CEF-824-1S, was installed downgradient of the oil-water separator during the Base Realignment and Closure investigation of Building 824. The downgradient location was selected based on the U.S. Geological Survey groundwater model for NAS Cecil Field. A groundwater sample was collected from this well and analyzed for the used oil group parameters. A general site plan indicating the location of the soil borings and monitoring wells is presented on Figure 2. The monitoring well installation detail is included in Appendix A.



GENERAL LOCATION PLAN
Not to scale

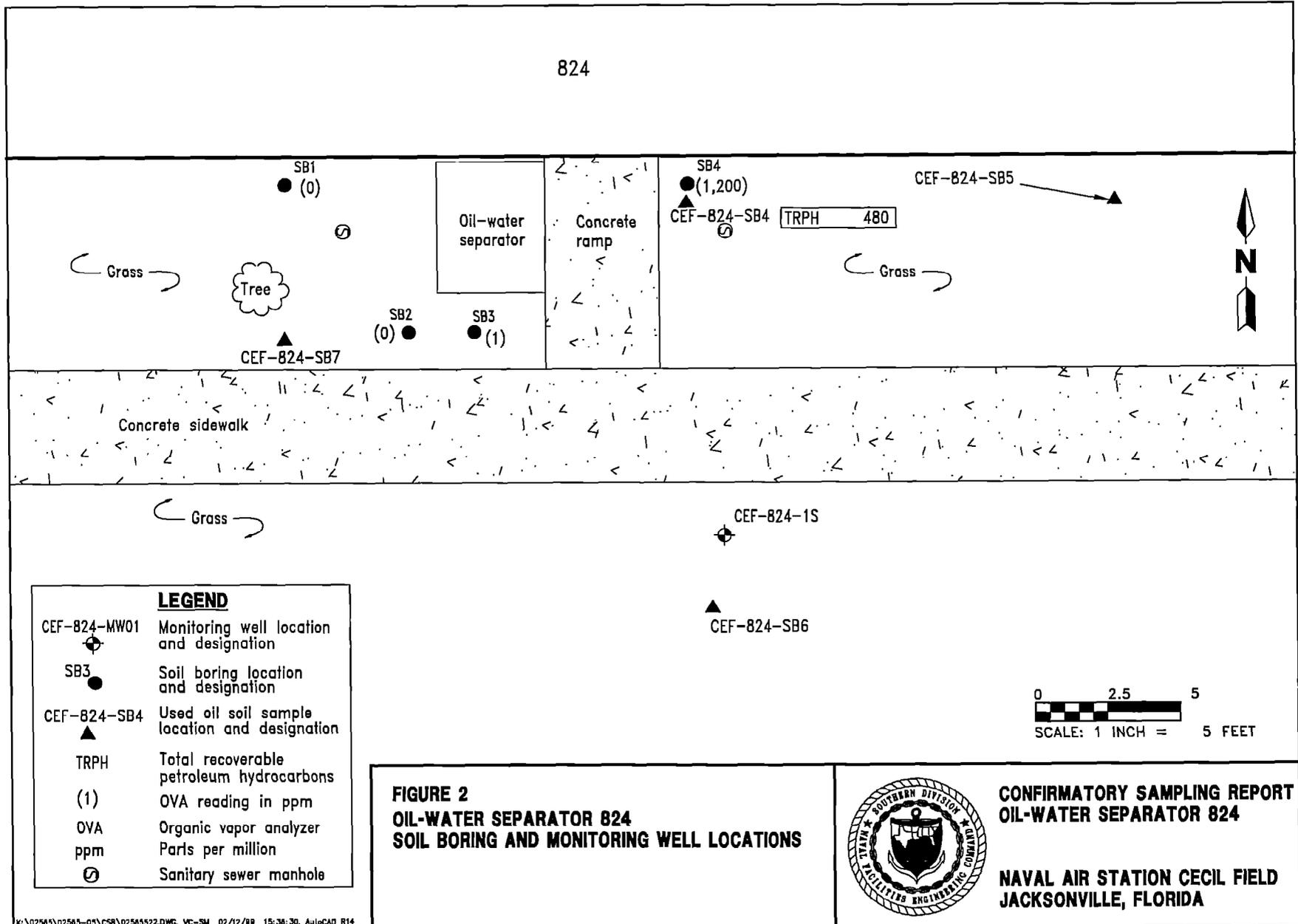
0 50 100
SCALE: 1 INCH = 100 FEET

FIGURE 1
LOCATIONS OF OIL-WATER SEPARATORS
824 AND 824A



CONFIRMATORY SAMPLING REPORT
OIL-WATER SEPARATOR 824

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA



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Rev. 0

FIGURE 2
OIL-WATER SEPARATOR 824
SOIL BORING AND MONITORING WELL LOCATIONS



CONFIRMATORY SAMPLING REPORT
OIL-WATER SEPARATOR 824

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

3.0 SCREENING AND ANALYTICAL RESULTS

Excessively contaminated soil (greater than 50 parts per million [ppm] on an OVA) was detected in one of the four soil borings advanced during the confirmatory sampling. Soil boring SB4 had the highest OVA concentration (1,200 ppm) at a depth of 7 feet bls. The soil OVA data are summarized in Table 1 and presented on Figure 2.

TRPH was the only contaminant that was detected above Florida Department of Environmental Protection (FDEP) soil cleanup target levels in the subsurface soil samples collected for used oil analysis. Subsurface soil analytical results are summarized in Table 2 and presented in Appendix A. No contaminants were detected above FDEP groundwater cleanup target levels in the groundwater samples collected from monitoring well CEF-824-1S during the confirmatory sampling. A summary of the groundwater analytical results is presented in Table 3. The complete analytical data set is presented in Appendix B.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Data obtained during the confirmatory sampling of oil-water separator 824-OW indicated the presence of soil contamination at levels above cleanup target levels. The extent of TRPH soil contamination has been delineated at the site. No contaminants were detected in groundwater sample CEF-824-1S above cleanup target levels.

Based on the presence of soil contamination above cleanup target levels, it is recommended that additional action take place at the oil-water separator site.

**Table 1
Soil Screening Results**

Confirmatory Sampling Report
Building 824, Oil-Water Separator 824-OW
Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
SB1	1	0	--	0
	3	0	--	0
	5	0	--	0
	7 (wet)	2	0	0
SB2	1	0	--	0
	3	0	--	0
	5	0	--	0
	7 (moist)	0	--	0
	8 (wet)	0	--	0
SB3	1	0	0	0
	3	0	0	0
	5	1	0	1
	7	1	0	1
	7.5 (wet)	0	--	0
SB4	1	0	--	0
	3	0	--	0
	5 (moist)	2	0	2
	7 (moist)	1,200	0	1,200
	7.5 (wet)	450	0	450

Notes: Soil samples were filtered with carbon to determine the methane concentration.

OVA = organic vapor analyzer.
ppm = parts per million.
bls = below land surface.
-- = filtered readings were not collected..
wet = soil sample was completely saturated when analyzed.
moist = soil sample was partially saturated when analyzed.

Table 2
Summary of Subsurface Soil Analytical Detections

Confirmatory Sampling Report
Building 824, Oil-Water Separator 824-OW
Naval Air Station Cecil Field
Jacksonville, Florida

Compound	CEF-824-SB4 (OVA = 1,200 ppm; 7 feet bls)	CEF-824-SB5 (OVA = 0 ppm; 4 feet bls)	CEF-824-SB6 (OVA = 0 ppm; 4 feet bls)	CEF-824-SB7 (OVA = 0 ppm; 4 feet bls)	Soil Cleanup Target Levels ¹
<u>Volatile Organic Aromatics (USEPA Method 8020) (mg/kg)</u>					
1,1-Dichloroethane	0.0017	NC	NC	NC	NA
Ethylbenzene	0.020	NC	NC	NC	240/0.4
Tetrachloroethene	0.017	NC	NC	NC	NA
Xylenes	0.105	NC	NC	NC	290/0.3
<u>Polynuclear Aromatic Hydrocarbons (USEPA Method 8310) (mg/kg)</u>					
Naphthalene	0.660	NC	NC	NC	1,000/1
2-Methylnaphthalene	3.1	NC	NC	NC	NA
<u>Total Recoverable Petroleum Hydrocarbons (TRPH) (FL-PRO) (mg/kg)</u>					
TRPH	480	ND	ND	ND	350/340
<u>Inorganic Analytes (mg/kg)</u>					
Chromium	12	NC	NC	NC	290/TCLP
Lead	12 J	NC	NC	NC	500/TCLP
Mercury	0.019	NC	NC	NC	3.7/TCLP

¹ Chapter 62-770, Florida Administrative Code: Direct Exposure 1/Leachability, Table V.

Notes: Bold indicates exceedance of soil cleanup target level.

OVA = organic vapor analyzer.
ppm = parts per million.
bls = below land surface.
USEPA = U.S. Environmental Protection Agency.
mg/kg = milligrams per kilogram.
NC = not collected.
NA = not applicable.
FL-PRO = Florida-Petroleum Residual Organics.
ND = not detected.
TCLP = toxicity characteristic leaching procedure.

Table 3
Summary of Groundwater Analytical Results

Confirmatory Sampling Report
Building 824, Oil-Water Separator 824-OW
Naval Air Station Cecil Field
Jacksonville, Florida

Compound	CEF-824-1S	Groundwater Cleanup Target Levels ¹
<u>Volatile Organic Aromatics (USEPA Method 601/602) (µg/l)</u>		
Not detected		
<u>Polynuclear Aromatic Hydrocarbons (USEPA Method 625) (µg/l)</u>		
Not detected		
<u>Total Recoverable Petroleum Hydrocarbons (FL-PRO) (mg/l)</u>		
Not detected		
<u>Inorganic Analytes (µg/l)</u>		
Barium	24.5	2,000
Chromium	8.6 J	100
Lead	4.9	15
¹ Chapter 62-770, Florida Administrative Code. Notes: USEPA = U.S. Environmental Protection Agency. µg/l = micrograms per liter. FL-PRO = Florida Petroleum Residual Organics. mg/l = milligrams per liter. J = estimated value.		

REFERENCE

ABB Environmental Services, Inc. 1994. *Base Realignment and Closure Environmental Baseline Survey Report, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for Southern Division, Naval Facilities Engineering Command, North Charleston, South Carolina (November).

APPENDIX A
MONITORING WELL INSTALLATION DETAIL

PROJECT: NAS Cecil Field BRAC Group I & II		LOG of WELL: CEF-0824-01	BORING NO. CEF-0824-01
CLIENT: SOUTHDIYNAVFACENCOM	PROJECT NO: 8520.81	DATE STARTED: 04-12-95	COMPLETED: 04-12-95
DRILLING SUBCONTRACTOR: Groundwater Protection Inc.		SITE: Building 824	MONITOR INST. Microtip-PID
METHOD: Mobil Drill B-52 w/8.25"HSA	WELL CASE DIAM.: 2"	SCREEN INT.: 4.5-14.5 FT.	SCREEN SLOT SIZE: 0.010"
TOC ELEVATION: 78.70 FT. NGVD	GROUND ELEV.: 78.8 FT. NGVD	NORTHING: 2143715.78	EASTING: 377847.99
WELL DEVELOP. DATE: 04-12-95	TOTAL DEPTH: 15 FT. BLS	DEPTH TO ∇ 7 FT. BLS	LOGGED BY: R. Holloway

DEPTH FT.	SAMPLE INTERVAL RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/8-IN	WELL DATA
		Oppn		[Diagonal Hatching]	SM	posthole	[Well Diagram]
		Oppn				posthole	
5	80%	Oppn				2-2-1-1	
	50%	Oppn				1-1-3-2	
	80%	Oppn	Silty Sand, brown to light tan to light gray, fine-grained, wet below 7' bls.			4-4-4-4	
10	90%	Oppn				2-3-3-3	
	90%	Oppn				3-3-3-5	
15	90%	Oppn	End of boring: 15' bls.			5-8-7-7	

APPENDIX B
ANALYTICAL DATA

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 824
 SUBSURFACE SOIL -- VOLATILES -- REPORT REQUEST NO. 10554

Lab Sample Number: JR36663
 Site: UST GREY
 Locator: CEF-824-SB4
 Collect Date: 14-OCT-98

VALUE QUAL UNITS DL

BRAC VOLATILES

1,1,1-Trichloroethane	1 U	ug/kg	1
1,1,2,2-Tetrachloroethane	1 U	ug/kg	1
1,1,2-Trichloroethane	1 U	ug/kg	1
1,1-Dichloroethane	1.7	ug/kg	1
1,1-Dichloroethene	1 U	ug/kg	1
1,2-Dichloroethane	1 U	ug/kg	1
1,2-Dichloropropene	1 U	ug/kg	1
Benzene	1 U	ug/kg	1
Bromodichloromethane	1 U	ug/kg	1
Bromoform	1 U	ug/kg	1
Bromomethane	1 U	ug/kg	1
Carbon tetrachloride	1 U	ug/kg	1
Chlorobenzene	1 U	ug/kg	1
Chloroethane	1 U	ug/kg	1
Chloroform	1 U	ug/kg	1
Chloromethane	1 U	ug/kg	1
Dibromochloromethane	1 U	ug/kg	1
Ethyl benzene	20	ug/kg	1
Methylene chloride	30 U	ug/kg	30
Tetrachloroethene	17	ug/kg	1
Toluene	1 U	ug/kg	1
Trichloroethene	1 U	ug/kg	1
Vinyl chloride	1 U	ug/kg	1
cis-1,3-Dichloropropene	1 U	ug/kg	1
m,p-Xylene	69	ug/kg	1
o-Xylene	36	ug/kg	1
trans-1,2-Dichloroethene	1 U	ug/kg	1
trans-1,3-Dichloropropene	1 U	ug/kg	1

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

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 824
 SUBSURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 10911

Lab Sample Number: JR36663
 Site: UST GREY
 Locator: CEF-824-SB4
 Collect Date: 14-OCT-98

VALUE QUAL UNITS DL

BRAC SEMIVOLATILES

Phenol	390 U	ug/kg	390
bis(2-Chloroethyl)ether	390 U	ug/kg	390
1,3-Dichlorobenzene	390 U	ug/kg	390
1,4-Dichlorobenzene	390 U	ug/kg	390
1,2-Dichlorobenzene	390 U	ug/kg	390
N-Nitroso-di-n-propylamine	390 U	ug/kg	390
Nitrobenzene	390 U	ug/kg	390
Isophorone	390 U	ug/kg	390
2-Methylphenol	390 U	ug/kg	390
2-Nitrophenol	390 U	ug/kg	390
2,4-Dimethylphenol	390 U	ug/kg	390
bis(2-Chloroethoxy) methane	390 U	ug/kg	390
2,4-Dichlorophenol	390 U	ug/kg	390
1,2,4-Trichlorobenzene	390 U	ug/kg	390
Naphthalene	660	ug/kg	390
Hexachlorobutadiene	390 U	ug/kg	390
Hexachlorocyclopentadiene	390 U	ug/kg	390
Hexachloroethane	390 U	ug/kg	390
4-Chloro-3-methylphenol	390 U	ug/kg	390
2-Methylnaphthalene	3100	ug/kg	390
2,4,6-Trichlorophenol	390 U	ug/kg	390
2-Chloronaphthalene	390 U	ug/kg	390
Dimethylphthalate	390 U	ug/kg	390
Acenaphthylene	390 U	ug/kg	390
2,4-Dinitrophenol	2000 U	ug/kg	2000
3- & 4-Methylphenol (2)	390 U	ug/kg	390
4-Nitrophenol	390 U	ug/kg	390
2,4-Dinitrotoluene	390 U	ug/kg	390
Diethylphthalate	390 U	ug/kg	390
4-Chlorophenyl-phenylether	390 U	ug/kg	390
Fluorene	390 U	ug/kg	390
4,6-Dinitro-2-methylphenol	1200 U	ug/kg	1200
4-Bromophenyl-phenylether	390 U	ug/kg	390
Hexachlorobenzene	390 U	ug/kg	390
Pentachlorophenol	390 U	ug/kg	390
Phenanthrene	390 U	ug/kg	390
Pyrene	390 U	ug/kg	390
Anthracene	390 U	ug/kg	390
Acenaphthene	390 U	ug/kg	390
Di-n-butylphthalate	390 U	ug/kg	390
Fluoranthene	390 U	ug/kg	390
3,3-Dichlorobenzidine	790 U	ug/kg	790
Benzo (a) anthracene	390 U	ug/kg	390
Carbazole	390 U	ug/kg	390
Chrysene	390 U	ug/kg	390
bis(2-Ethylhexyl) phthalate	390 U	ug/kg	390
Di-n-octylphthalate	390 U	ug/kg	390
Benzo (b) fluoranthene	390 U	ug/kg	390
Benzo (k) fluoranthene	390 U	ug/kg	390
Benzo (a) pyrene	390 U	ug/kg	390

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 824
SUBSURFACE SOIL -- SEMIVOLATILES -- REPORT REQUEST NO. 10911

Lab Sample Number: JR36663
Site: UST GREY
Locator: CEF-824-SB4
Collect Date: 14-OCT-98

VALUE QUAL UNITS DL

Indeno (1,2,3-cd) pyrene	390 U	ug/kg	390
Dibenzo (a,h) anthracene	390 U	ug/kg	390
Benzo (g,h,i) perylene	390 U	ug/kg	390
2,6-Dinitrotoluene	390 U	ug/kg	390
4-Chloroaniline	390 U	ug/kg	390
2-Nitroaniline	390 U	ug/kg	390
3-Nitroaniline	390 U	ug/kg	390
4-Nitroaniline	390 U	ug/kg	390

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

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 824
 SUBSURFACE SOIL -- INORGANICS -- REPORT REQUEST NO. 10910

Lab Sample Number: JR36663
 Site: UST GREY
 Locator: CEF-824-S84
 Collect Date: 14-OCT-98

VALUE QUAL UNITS DL

RCRA 8

Element	Value	Qual	Units	DL
Arsenic	.6	U	mg/kg	.6
Barium	24	U	mg/kg	24
Cadmium	1	U	mg/kg	1
Chromium	12		mg/kg	1
Lead	12	J	mg/kg	8
Mercury	.019		mg/kg	.01
Selenium	2	U	mg/kg	2
Silver	2	U	mg/kg	2

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

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 824
 SUBSURFACE SOIL -- TPH -- REPORT REQUEST NO. 10908

Lab Sample Number:	JR36663	JR52911	JR52912	JR52913							
Site	UST GREY	UST GREY	UST GREY	UST GREY							
Locator	CEF-824-SB4	CEF-824-SB5	CEF-824-SB6	CEF-824-SB7							
Collect Date:	14-OCT-98	03-FEB-99	03-FEB-99	03-FEB-99							
VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL	VALUE	QUAL UNITS	DL

FLA PRO												
TPH C8-C40	480	mg/kg	78	71	mg/kg	8.4	7.6 U	mg/kg	7.6	7.7 U	mg/kg	7.7

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

NAS CECIL FIELD -- OIL/WATER SEPARATOR 8240W
GROUNDWATER -- ANALYTICAL DATA -- REPORT REQUEST NO. 10700

Lab Sample Number: 713782
Site: CECILBRAC1
Locator: 09G00101
Collect Date: 05-MAY-95

	VALUE	QUAL UNITS	DL
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	.0059 J	ug/l	.05
Endosulfan I	.05 U	ug/l	.05
Dieldrin	.0034 J	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	.0016 J	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
CLP METALS AND CYANIDE			
Aluminum	10200	ug/l	200
Antimony	1.9 U	ug/l	1.9
Arsenic	3.2 U	ug/l	3.2
Barium	24.5 J	ug/l	200
Beryllium	.2 U	ug/l	.2
Cadmium	.3 U	ug/l	.3
Calcium	76800	ug/l	5000
Chromium	8.6 J	ug/l	10
Cobalt	.6 U	ug/l	.6
Copper	1.9 J	ug/l	25
Iron	5850	ug/l	100
Lead	4.9	ug/l	3
Magnesium	5130	ug/l	5000
Manganese	72.4	ug/l	15
Mercury	.2 U	ug/l	.2
Nickel	3.2 J	ug/l	40
Potassium	712 J	ug/l	5000
Selenium	4.4 U	ug/l	4.4
Silver	.5 U	ug/l	.5
Sodium	3440 J	ug/l	5000
Thallium	4.5 U	ug/l	4.5
Vanadium	8.9 J	ug/l	50
Zinc	13.4 UJ	ug/l	13.4

NAS CECIL FIELD -- OIL/WATER SEPARATOR 8240W
GROUNDWATER -- ANALYTICAL DATA -- REPORT REQUEST NO. 10700

Lab Sample Number: 713782
Site CECILBRAC1
Locator 09G00101
Collect Date: 05-MAY-95

VALUE QUAL UNITS DL

Cyanide 10 U ug/l 10

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

NAS CECIL FIELD -- OIL/WATER SEPARATOR AT FACILITY 824
GROUNDWATER -- TPH -- REPORT REQUEST NO. 10909

Lab Sample Number: JR505313
Site: UST GREY
Locator: CEF-824-1S
Collect Date: 20-JAN-99

VALUE QUAL UNITS DL

FLA PRO
TPH C8-C40 .2 U mg/l .2

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