N60200.AR.002027
NAS CECIL FIELD, FL
5090.3a

SITE ASSESSMENT REPORT FOR BUILDING 605 TANK 605 BASE REALIGNMENT AND CLOSURE UNDERGROUND STORAGE TANK AND ABOVEGROUND STORAGE TANK GREY SITES REVISION 1 NAS CECIL FIELD FL

8/1/1999

HARDING LAWSON ASSOCIATES

SITE ASSESSMENT REPORT

BUILDING 605, TANK 605

BASE REALIGNMENT AND CLOSURE

UNDERGROUND STORAGE TANK AND ABOVEGROUND STORAGE TANK GREY SITES

NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA

Unit Identification Code: N60200

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

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August 1999

Revision 1.0

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-0317/090 are complete and accurate and comply with all requirements of this contract.

DATE: August 22, 1999

NAME AND TITLE OF CERTIFYING OFFICIAL: Rao Angara
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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Naval Air Station Cecil Field
Jacksonville, Florida

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Building 605, Tank 605
Naval Air Station Cecil Field
Jacksonville, Florida

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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
BEI	Bechtel Environmental Incorporated
bls	below land surface
FDEP	Florida Department of Environmental Protection
HLA	Harding Lawson Associates
KAG	Kerosene Analytical Group
OVA	organic vapor analyzer
SA	site assessment
UST	underground storage tank

1.0 INTRODUCTION

Harding Lawson Associates (HLA), under contract to the Southern Division, Naval Facilities Engineering Command, has completed the site assessment (SA) for Tank 605 at Naval Air Station Cecil Field in Jacksonville, Florida. This report summarizes the related field operations, results, conclusions, and recommendations of the SA.

Tank 605 was an underground storage tank (UST) located at Building 605, which served as a housing facility for Marine personnel (Figure 1). The UST had a capacity of 3,000 gallons and was used to store heating oil for Building 605 (ABB Environmental Services, Inc. [ABB-ES], 1997a). A contamination assessment plan for the assessment of soil and groundwater at Tank 605 was prepared by HLA (then ABB-ES) in November 1996 (ABB-ES, 1996). Results of the contamination assessment are presented in the Confirmatory Sampling Report, which recommended that an SA be conducted to delineate the extent of excessively contaminated soil, free product, and groundwater contamination (ABB-ES, 1997b).

Tank 605 was removed by Bechtel Environmental, Inc. (BEI), on April 8, 1997. No soil was removed from the site. A closure report was prepared for Tank 605 and submitted to the Florida Department of Environmental Protection (FDEP) in July of 1997 (BEI, 1997).

A site assessment report was submitted to FDEP in October 1998 and recommended that a source removal of contaminated soil which contained free product (HLA, 1998). A source removal was completed by CH2M Hill in January 1999. The site assessment report has been revised to include the source removal information.

2.0 FIELD INVESTIGATION

The SA for Tank 605 was initiated in October 1997 and included

- the advancement of 15 soil borings to the water table,
- installation of one deep and three shallow monitoring wells,
- collection and analysis of three subsurface soil and four groundwater samples, and
- installation and sampling of one monitoring well after the source removal.

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). Three subsurface soil samples were collected on April 15, 1998, at soil boring locations with varying levels of contamination and analyzed for the Kerosene Analytical Group (KAG) parameters. Samples CEF-605-SB1H, CEF-605-SB2L, and CEF-605-SB3M were collected from 4 to 6 feet bls, from 3 to 4 feet bls, and from 3 to 4 feet bls, respectively.

One shallow monitoring well, CEF-605-2S, was installed northeast of the UST near the location of soil boring CEF-605-SB2 to a depth of 12 feet bls. This monitoring well replaced well CEF-605-1S, which was destroyed during the tank

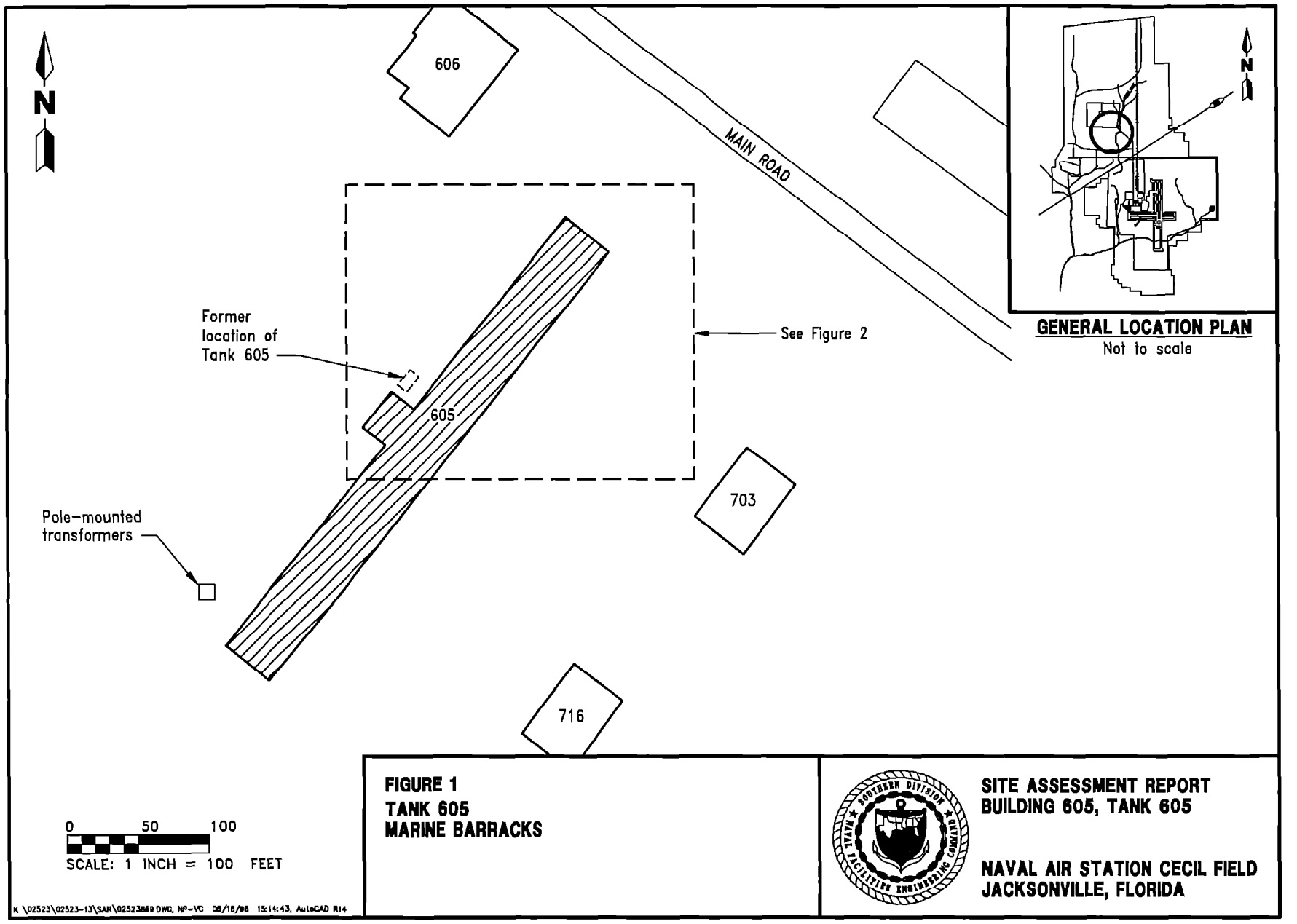

FIGURE 1
TANK 605
MARINE BARRACKS

SITE ASSESSMENT REPORT
BUILDING 605, TANK 605

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

removal. A general site plan indicating the locations of the soil borings and the former monitoring well location is presented on Figure 2. The monitoring well installation detail is summarized in Table 1 and included in Appendix A.

Two additional shallow monitoring wells, CEF-605-3S and CEF-605-4S, were installed downgradient of the former tank location. The deep source monitoring well, CEF-605-5D, was installed immediately downgradient of the source area and screened between 25 and 30 feet bls. The downgradient locations were selected based on the groundwater flow direction, which was assessed by measuring water levels in piezometers. Monitoring wells CEF-605-2S and CEF-605-5D were abandoned during the source removal of contaminated soil. Monitoring well CEF-605-2S was replaced by well CEF-605-6S on May 11, 1999, after the source removal was completed.

3.0 SCREENING AND ANALYTICAL RESULTS

Groundwater flow direction is to the northeast at the Tank 605 site (Figure 2).

Excessively contaminated soil (greater than 50 parts per million on an OVA) was detected in 12 of 15 soil borings advanced during the SA. The extent of excessively contaminated soil is presented on Figure 2. The soil OVA data are summarized in Table 2 and presented on Figure 2.

Approximately 874 tons of petroleum contaminated soil was excavated by CH2M Hill in January 1999. The horizontal limits of the excavation had OVA readings less than 50 ppm. Two soil samples were collected for SPLP analysis from the soil remaining around a gas pipeline that runs through the source area. No contaminants were detected in these samples. The Source Removal Report for Tank 605 is included in Appendix C.

Free product with an apparent thickness of 1.13 feet was measured in monitoring well CEF-605-1S during the confirmatory sampling. Free product with an approximate thickness of 0.01 feet was measured in piezometer CEF-605-PZ1 (Figure 2) located in the source area near the former location of monitoring well CEF-605-1S.

No contaminants were detected above FDEP soil cleanup target levels in the subsurface soil samples collected for KAG analysis. Subsurface soil analytical results are summarized in Table 3 and presented in Appendix B.

No contaminants were detected above FDEP cleanup target levels in groundwater samples collected from the Tank 605 monitoring wells. Groundwater results are summarized in Table 4 and presented in Appendix B.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater flow direction is to the northeast at the Tank 605 site (Figure 2).

Data obtained during the confirmatory sampling at the Tank 605 site provided an adequate assessment of the horizontal and vertical extent of excessively contaminated soil. No contaminants were detected above FDEP cleanup target levels

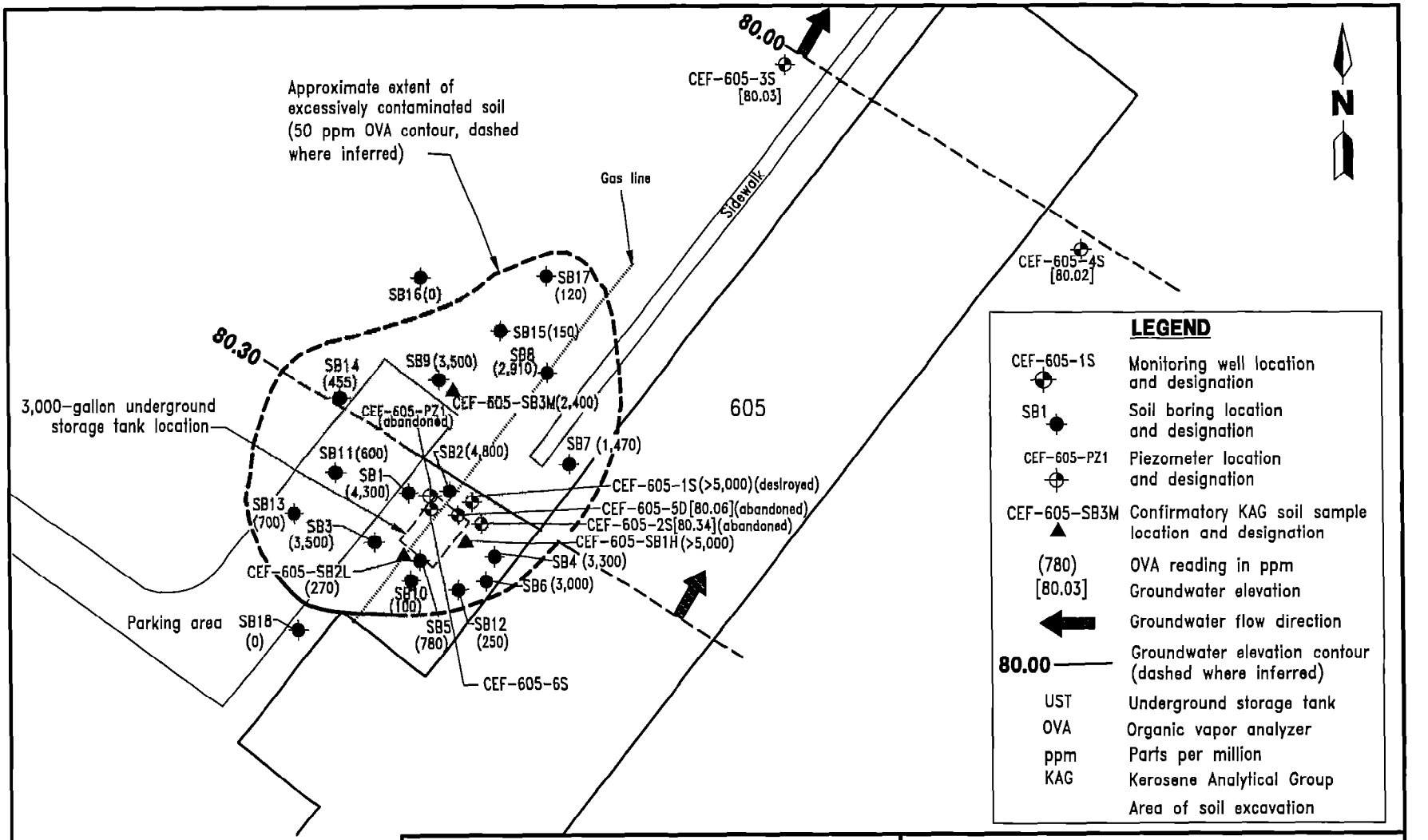

FIGURE 2
TANK 605
SOIL BORING AND MONITORING WELL LOCATIONS

SITE ASSESSMENT REPORT
BUILDING 605, TANK 605

NAVAL AIR FIELD CECIL FIELD
JACKSONVILLE, FLORIDA

Table 1
Monitoring Well Construction Summary and Groundwater Elevation Data

Site Assessment Report
Building 605. Tank 605
Naval Air Station Cecil Field
Jacksonville, Florida

Monitoring Well No.	Total Well Depth (feet bls)	Screened Interval (feet bls)	TOC Elevation (feet NGVD)	September 25, 1998	
				Depth to Water (feet BTOC)	Water-Level Elevation (feet NGVD)
CEF-605-1S	Destroyed	NA	NA	NA	NA
CEF-605-2S	Abandoned	2 to 12	81.99	1.65	80.34
CEF-605-3S	12	2 to 12	81.69	1.66	80.03
CEF-605-4S	12	2 to 12	81.59	1.57	80.02
CEF-605-5D	Abandoned	25 to 30	82.18	2.12	80.06
CEF-605-6S	11.1	1.1 to 11.1	NA	NA	NA

Notes: bls = below land surface.
NGVD = National Geodetic Vertical Datum, 1929.
TOC = top of casing.
BTOC = below top of casing
NA = not applicable.

Table 2
Soil Screening Results

Site Assessment Report
Building 605, Tank 605
Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
SB1	1	3,300	0	3,300
	3	2,900	0	2,900
	5	4,300	0	4,300
	7 (wet)	2,600	0	2,600
SB2	1	140	0	140
	3	2,200	0	2,200
	5	4,800	0	4,800
	7 (wet)	>5,000	0	>5,000
	8 (wet)	3,800	0	3,800
SB3	1	9	0	9
	3	1,300	0	1,300
	5	3,500	0	3,500
	7 (wet)	1,400	0	1,400
SB4	1	0	–	0
	3	3,300	0	3,300
	5	3,100	0	3,100
	7 (wet)	1,400	0	1,400
CEF-605-1S	2	1,200	0	1,200
	4	>5,000	0	>5,000
	11	2,000	0	2,000
SB5	1	0	--	0
	3	900	120	780
	4.5 (wet)	350	25	325
SB6	1	250	10	240
	3	350	0	350
	5	3,100	100	3,000
	7 (wet)	800	60	720
SB7	1	850	25	825
	3	1,500	30	1,470
	5	1,500	100	1,400
	7 (wet)	400	80	320
SB8	1	150	10	140
	3	3,200	280	2,910
	5	1,500	35	1,465
	7 (wet)	1,200	150	1,050

See notes at end of table.

Table 2 (Continued)
Soil Screening Results

Site Assessment Report
Building 605, Tank 605
Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
SB9	1	100	25	75
	3	3,500	0	3,500
	5	140	30	110
	7 (wet)	250	15	235
SB10	1	50	0	50
	3	100	0	100
	5	200	140	60
	7 (wet)	200	50	150
SB11	1	500	20	480
	3	600	0	600
	5	600	0	600
	6.5 (wet)	400	0	400
SB12	1	50	0	50
	3	150	50	100
	5	350	100	250
	7 (wet)	175	10	165
SB13	1	500	0	500
	3	700	0	700
	5	130	0	130
	7 (wet)	1,100	0	1,100
SB14	1	0	–	0
	3	480	25	455
	5	180	0	180
	7 (wet)	100	0	100
SB15	1	0	–	0
	3	240	90	150
	5 (wet)	220	80	140
	7 (wet)	50	23	27
SB16	1	0	--	0
	3	0	–	0
	5 (wet)	50	18	28
SB17	1	20	–	20
	3	150	30	120
	5 (wet)	20	–	20

See notes at end of table.

Table 2 (Continued)
Soil Screening Results

Site Assessment Report
Building 605, Tank 605
Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
SB18	1	0	--	0
	3 (wet)	140	0	140
SB-19	1	0	0	0
	3	100	50	50
	5 (wet)	700	0	700

Notes: Soil samples were collected on January 22, October 17, and October 20, 1997.
Soil samples were filtered with carbon to determine the methane concentration.

OVA = organic vapor analyzer.
ppm = parts per million.
bls = below land surface.
wet = soil sample was completed saturated when analyzed.
> = greater than.
-- = filtered readings were not collected.

Table 3
Summary of Subsurface Soil Analytical Detections

Site Assessment Report
Building 605, Tank 605
Naval Air Station Cecil Field
Jacksonville, Florida

Compound	CEF-605-SB1H (4 to 6 ft bls; OVA = >5,000 ppm)	CEF-605-SB2L (3 to 4 ft bls; OVA = 270 ppm)	CEF-605-SB3M (3 to 4 ft bls; OVA = 2,400 ppm)	Soil Cleanup Target Levels[1]
Volatile Organic Aromatics (USEPA Method 8020) (mg/kg)				
No compounds detected				
Polynuclear Aromatic Hydrocarbons (USEPA Method 8310) (mg/kg)				
Benzo(a)anthracene	ND	0.0096	ND	1.4/2.9
Benzo(g,h,i)perylene	0.0096	ND	ND	2,300/13,000
Fluoranthene	0.0067	0.011	ND	2,800/550
Pyrene	ND	0.011	ND	2,200/570
Total Recoverable Petroleum Hydrocarbons (TRPH) (FL-PRO) (mg/kg)				
TRPH	ND	18	ND	350/340

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

Notes: Soil samples were collected on April 15, 1998.

USEPA = U.S. Environmental Protection Agency.
mg/kg = milligrams per kilogram.
ND = not detected.
FL-PRO = Florida-Petroleum Residual Organics.

Table 4
Summary of Groundwater Analytical Detections

Site Assessment Report
Building 605, Tank 605
Naval Air Station Cecil Field
Jacksonville, Florida

Compound	CEF-605-2S	CEF-605-3S	CEF-605-4S	CEF-605-5D	CEF-605-6S	Groundwater Cleanup Target Levels[1]
Volatile Organic Aromatics (USEPA Method 8020) (µg/ℓ)						
Ethylbenzene	15	ND	ND	ND	7.8	30
Toluene	ND	3.2	1.1	ND	1.3 J	40
Xylenes	5.9	ND	ND	ND	ND	20
Polynuclear Aromatic Hydrocarbons (USEPA Method 8310) (µg/ℓ)						
Anthracene	1.5	ND	ND	ND	ND	2,100
1-Methylnaphthalene	7.2	ND	ND	ND	ND	NA
2-Methylnaphthalene	11	ND	ND	ND	ND	NA
Fluoranthene	1.2	ND	ND	ND	ND	280
Fluorene	1.3	ND	ND	ND	ND	280
Naphthalene	4.1	ND	ND	ND	ND	20
Phenanthrene	1.5	ND	ND	ND	ND	210
Pyrene	0.64	ND	ND	ND	ND	210
Total Recoverable Petroleum Hydrocarbons (TRPH) (FL-PRO) (mg/ℓ)						
TRPH	2.6	ND	ND	ND	ND	5

[1] Chapter 62-770, Florida Administrative Code.

Notes: Samples were collected on July 9, 1998 and May 19, 1999 (CEF-605-6S).

USEPA = U.S. Environmental Protection Agency.
µg/ℓ = micrograms per liter.
ND = not detected.
NA = not applicable.
FL-PRO = Florida-Petroleum Residual Organics.
mg/ℓ = milligrams per liter.

in the subsurface soil and groundwater samples collected for KAG analysis. Petroleum contaminated soil was removed in January 1999 and the limits of the excavation had OVA readings less than 50 ppm. No free product was observed in the source area monitoring well CEF-605-6S which was installed after the source removal.

Therefore, it is recommended that no further action take place at the Tank 605 site.

5.0 PROFESSIONAL REVIEW CERTIFICATION

The SA contained in this report was prepared using sound hydrogeologic principles and judgment. This assessment is based on the geologic investigation and associated information detailed in the text and appended to this report. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the effects of any additional information on the assessment described in this report. This SA report was developed for the Tank 605 site at NAS Cecil Field, Jacksonville, Florida, and should not be construed to apply to any other site.

Eric A. Blomberg
Professional Geologist
P.G. No. 0001695

8-27-99
Date

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_____

Eric A. Blomberg
Professional Geologist
P.G. No. 0001695

_____

Date

REFERENCES

ABB Environmental Services, Inc. (ABB-ES). 1996. *Contamination Assessment Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina (November).

ABB-ES. 1997a. *Base Realignment and Closure Tank Management Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (January).

ABB-ES. 1997b. *Confirmatory Sampling Report, Building 605, Tank 605, Base Realignment and Closure, Underground Storage Tank and Aboveground Storage Tank Grey Sites, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (October).

Bechtel Environmental Incorporated. 1997. DO #59: *Closure Report for Above Storage Tank/Underground Storage Tank Removals, Naval Air Station Cecil Field, Jacksonville, Florida*. (July).

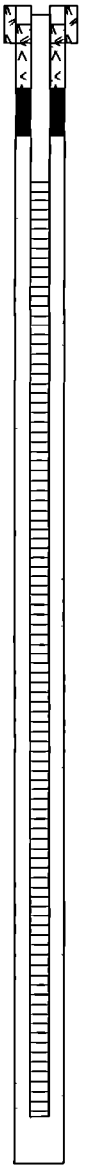
Harding Lawson Associates. 1998. Site Assessment Report, Building 605, Tank 605, Naval Air Station Cecil Field, Jacksonville, Florida. Revision 0.0. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (October).

APPENDIX A

MONITORING WELL INSTALLATION DETAIL

TITLE: NAS Cecil Field, Bldg. 605,Site Assessment Report	LOG of WELL: CEF-605-2S	BORING NO. CEF-605-2S
CLIENT: SOUTHDIVNAVFACENGCOM		PROJECT NO: 02523.13
CONTRACTOR: Custom Drilling	DATE STARTED: 02-11-98	COMPLTD: 02-11-98
METHOD: HSA	CASE SIZE: 2in.	SCREEN INT.: 2-12 ft.	PROTECTION LEVEL: D
TOC ELEV.: 81.99 FT.	MONITOR INST.: FID	TOT DPTH: 12.5FT.	DPTH TO ∇ N/A FT.
LOGGED BY: J Tarr	WELL DEVELOPMENT DATE: 02-24-98	SITE: Building 605

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					<> see note		SM		
1									
2				>5000	SILTY SAND: dark gray to gray, fine grain, petroleum odor.			posthole	
3									
4				>5000				posthole	
5									
6				2900	SILTY SAND: dark gray to grayish orange, fine grain, petroleum odor.				
7									
8				1900				* **	
9									
10					SILTY SAND: grayish orange, fine grain, petroleum odor.				
11									
12				260					
13					<> soil description taken from CEF-605-5D				
					* no split spoon samples taken				
14					** OVA reading taken from auger cuttings				
15									



HARDING LAWSON ASSOCIATES

TITLE: NAS Cecil Field, Bldg. 605,Site Assessment Report	LOG of WELL: CEF-605-3S	BORING NO. CEF-605-3S
CLIENT: SOUTHDIVNAVFACENGCOM		PROJECT NO: 02523.13
CONTRACTOR: Custom Drilling	DATE STARTED: 02-11-98	COMPLTD: 02-11-98
METHOD: HSA	CASE SIZE: 2in.	SCREEN INT.: 2-12 ft.	PROTECTION LEVEL: D
TOC ELEV.: 81.69 FT.	MONITOR INST.: FID	TOT DPTH: 12.5FT.	DPTH TO ∇ N/A FT.
LOGGED BY: J Tarr	WELL DEVELOPMENT DATE: 02-23-98	SITE: Building 605

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					<> see note		SM		
1									
2				1800	SILTY SAND: dark gray to gray, fine grain, hydrogen sulfide odor.			posthole	
3									
4				3000				posthole	
5									
6				1600	SILTY SAND: dark gray to grayish orange, fine grain, hydrogen sulfide odor.				
7									
8								*	
								**	
9									
10					SILTY SAND: grayish orange, fine grain.				
11									
12				250					
13					<> soil description taken from CEF-605-5D				
					* no split spoon samples taken				
14					** OVA reading taken from auger cuttings				
15									

HARDING LAWSON ASSOCIATES

TITLE: NAS Cecil Field, Bldg. 605,Site Assessment Report	LOG of WELL: CEF-605-4S	BORING NO. CEF-605-4S
CLIENT: SOUTHDIVNAVFACENGCOM		PROJECT NO: 02523.13
CONTRACTOR: Custom Drilling	DATE STARTED: 02-11-98	COMPLTD: 02-11-98
METHOD: HSA	CASE SIZE: 2in.	SCREEN INT.: 2-12 ft.	PROTECTION LEVEL: D
TOC ELEV.: 81.59 FT.	MONITOR INST.: FID	TOT DPTH: 12.5FT.	DPTH TO ∇ N/A FT.
LOGGED BY: J Tarr	WELL DEVELOPMENT DATE: 02-23-98	SITE: Building 605

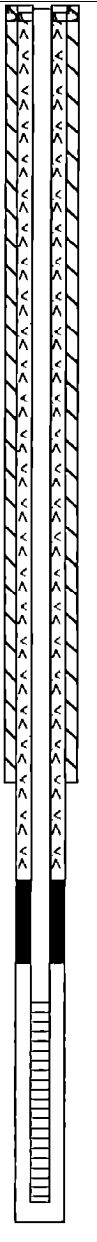
DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
					<> see note		SM		
1									
2				1800	SILTY SAND: dark gray to gray, fine grain.			posthole	
3									
4				2000				posthole	
5									
6					SILTY SAND: dark gray to grayish orange, fine grain.				
7									
8				1800				*	
								**	
9									
10					SILTY SAND: grayish orange, fine grain.				
11									
12				320					
13					<> soil description taken from CEF-605-5D				
					* no split spoon samples taken				
14					** OVA reading taken from auger cuttings				
15									

HARDING LAWSON ASSOCIATES

TITLE: NAS Cecil Field, Bldg. 605, Site Assessment Report	LOG of WELL: CEF-605-5D	BORING NO. CEF-605-5D
CLIENT: SOUTHDIVNAVFACENGCOM		PROJECT NO: 02523.13
CONTRACTOR: Custom Drilling	DATE STARTED: 02-25-98	COMPLTD: 02-27-98
METHOD: HSA	CASE SIZE: 2in.	SCREEN INT.: 25-30 ft.	PROTECTION LEVEL: D
TOC ELEV.: 82.18 FT.	MONITOR INST.: FID	TOT DPTH: 30.5FT.	DPTH TO ∇ N/A FT.
LOGGED BY: J Tarr	WELL DEVELOPMENT DATE: 03-11-98	SITE: Building 605

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN
1							SM	
2					SILTY SAND: dark gray to gray, fine grain.			posthole
3								
4								posthole
5								
6			70%	4200	SILTY SAND: dark gray to grayish orange, fine grain.			1,1,1,1
7								
8								
9								
10			0%		CONCRETE FRAGMENTS: no soils recovery.			refusal
11								
12								
13								
14								
15								
16			20%	210	SILTY SAND: light grayish orange, fine grain, very slightly clayey.			5,7,5,4
17								
18								
19								
20								
21			60%	360	SILTY SAND: light grayish orange, fine grain, very slightly clayey.			2,2,2,3
22								
23								
24								
25								
26			70%	80	SILTY SAND: olive gray, fine grain, slightly clayey.			5,7,8,5
27								
28								
29								
30								
31			90%	210	SILTY SAND: olive gray, fine grain, trace of clay.			4,3,6,9
32								
33								
34								
35								

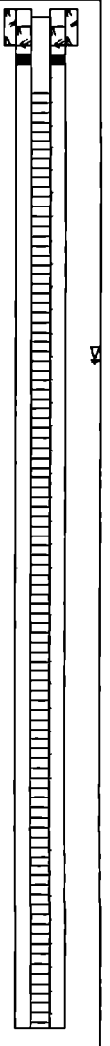
WELL DATA



HARDING LAWSON ASSOCIATES

TITLE: NAS Cecil Field, Bldg. 605 Site Assessment Report	LOG of WELL: CEF-605-6S	BORING NO. CEF-605-6S
CLIENT: SOUTHDIVNAVFACENGCOM		PROJECT NO: 02523-12
CONTRACTOR: Groundwater Protection Services	DATE STARTED: 05-11-99	COMPLTD: 05-11-99
METHOD: HSA	CASE SIZE: 2in.	SCREEN INT.: 1-11 ft.	PROTECTION LEVEL: D
TOC ELEV.: FT.	MONITOR INST.: FID	TOT DPTH: 11.0FT.	DPTH TO ▽ 3.88 FT.
LOGGED BY: H.Hooper	WELL DEVELOPMENT DATE: 05-12-99	SITE: Building 605

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				0	<> See Note		SP	posthole	
1									
					SAND: light tan fine sand (fill).				
2									
3							SM		
4				0				posthole	▽
5									
6				<5				*	
								**	
7				<5					
8					SILTY SAND: dark gray to gray silty fine sand.				
9				<5					
10									
					<> Soil description taken from posthole and auger				
11					* no split spoon samples taken				
					** OVA readings taken at borehole				
12									
13									
14									
15									



HARDING LAWSON ASSOCIATES

APPENDIX B

ANALYTICAL DATA

NAS CECIL FIELD -- TANK 605
SOIL DATA -- KEROSENE ANALYTICAL GROUP -- REPORT REQ NO. 9946

Lab Sample Number:	A8D1701010				A8D1701010				A8D1701010			
Site	UST GREY				UST GREY				UST GREY			
Locator	CEF-605-SB1H				CEF-605-SB2L				CEF-605-SB3M			
Collect Date:	15-APR-98				15-APR-98				15-APR-98			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
UST GREY												
Benzene	1.2	U	ug/kg	1.2	1.2	U	ug/kg	1.2	1.2	U	ug/kg	1.2
Ethylbenzene	1.2	U	ug/kg	1.2	1.2	U	ug/kg	1.2	1.2	U	ug/kg	1.2
Toluene	1.2	U	ug/kg	1.2	1.2	U	ug/kg	1.2	1.2	U	ug/kg	1.2
Xylenes (total)	1.2	U	ug/kg	1.2	1.2	U	ug/kg	1.2	1.2	U	ug/kg	1.2
Acenaphthene	230	U	ug/kg	230	250	U	ug/kg	250	240	U	ug/kg	240
Acenaphthylene	230	U	ug/kg	230	250	U	ug/kg	250	240	U	ug/kg	240
Anthracene	230	U	ug/kg	230	250	U	ug/kg	250	240	U	ug/kg	240
Benzo (a) anthracene	5.8	U	ug/kg	5.8	9.6		ug/kg	6.2	6	U	ug/kg	6
Benzo (a) pyrene	5.8	U	ug/kg	5.8	6.2	U	ug/kg	6.2	6	U	ug/kg	6
Benzo (b) fluoranthene	5.8	U	ug/kg	5.8	6.2	U	ug/kg	6.2	6	U	ug/kg	6
Benzo (g,h,i) perylene	9.6		ug/kg	5.8	6.2	U	ug/kg	6.2	6	U	ug/kg	6
Benzo (k) fluoranthene	5.8	U	ug/kg	5.8	6.2	U	ug/kg	6.2	6	U	ug/kg	6
Chrysene	23	U	ug/kg	23	25	U	ug/kg	25	24	U	ug/kg	24
Dibenzo (a,h) anthracene	5.8	U	ug/kg	5.8	6.2	U	ug/kg	6.2	6	U	ug/kg	6
Fluoranthene	6.7		ug/kg	5.8	11		ug/kg	6.2	6	U	ug/kg	6
Fluorene	230	U	ug/kg	230	250	U	ug/kg	250	240	U	ug/kg	240
Indeno (1,2,3-cd) pyrene	5.8	U	ug/kg	5.8	6.2	U	ug/kg	6.2	6	U	ug/kg	6
Naphthalene	230	U	ug/kg	230	250	U	ug/kg	250	240	U	ug/kg	240
Phenanthrene	230	U	ug/kg	230	250	U	ug/kg	250	240	U	ug/kg	240
Pyrene	5.8	U	ug/kg	5.8	11		ug/kg	6.2	6	U	ug/kg	6
FLA PRO												
TPH C8-C40	12	U	mg/kg	12	18		mg/kg	12	12	U	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 -- TANK 605
GROUNDWATER ANALYTICAL DATA -- REPORT REQUEST NO. 10196

Lab Sample Number:	A8G1001060				A8G1001060				A8G1001060				A8G1001060			
Site	UST GREY				UST GREY				UST GREY				UST GREY			
Locator	CEF-605-2S				CEF-605-3S				CEF-605-4S				CEF-605-5D			
Collect Date:	09-JUL-98				09-JUL-98				09-JUL-98				09-JUL-98			
	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL	VALUE	QUAL	UNITS	DL
BETX AND DICHLOROBENZENES																
Benzene	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Ethylbenzene	15		ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Toluene	1	U	ug/l	1	3.2		ug/l	1	1.1		ug/l	1	1	U	ug/l	1
Xylenes (total)	5.9		ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Chlorobenzene	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
1,2-Dichlorobenzene	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
1,3-Dichlorobenzene	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
1,4-Dichlorobenzene	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
PAHs																
Acenaphthene	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Acenaphthylene	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Anthracene	1.5		ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Benzo (a) anthracene	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Benzo (b) fluoranthene	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Benzo (k) fluoranthene	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05	.05	U	ug/l	.05
Benzo (a) pyrene	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Chrysene	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Dibenzo (a,h) anthracene	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Fluoranthene	1.2		ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Fluorene	1.3		ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Indeno (1,2,3-cd) pyrene	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Benzo (g,h,i) perylene	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
Naphthalene	4.1		ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Phenanthrene	1.5		ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
Pyrene	.64		ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1	.1	U	ug/l	.1
1-Methylnaphthalene	7.2		ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
2-Methylnaphthalene	11		ug/l	1	1	U	ug/l	1	1	U	ug/l	1	1	U	ug/l	1
FLA PRO																
TPH C8-C40	2.6		mg/l	.5	.5	U	mg/l	.5	.5	U	mg/l	.5	.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

Sample Identifier	CEF-605-6S
Sample Collect Date	5/20/99
Analyte	

PAHs

1-Methylnaphthalene	1. U ug/l (1.)
2-Methylnaphthalene	1. U ug/l (1.)
Acenaphthene	0.5 U ug/l (0.5)
Acenaphthylene	1. U ug/l (1.)
Anthracene	0.05 U ug/l (0.05)
Chrysene	0.05 U ug/l (0.05)
Fluoranthene	0.1 U ug/l (0.1)
Fluorene	0.1 U ug/l (0.1)
Naphthalene	0.5 U ug/l (0.5)
Phenanthrene	1. U ug/l (1.)
Pyrene	0.05 U ug/l (0.05)

Petroleum Hydrocarbons

Total Petroleum Hydrocarbons (C8-C40)	0.2 U mg/l (0.2)

Volatiles

1,1,1-Trichloroethane	1. U ug/l (1.)
1,1,2,2-Tetrachloroethane	1. U ug/l (1.)
1,1,2-Trichloroethane	1. U ug/l (1.)
1,1-Dichloroethane	1. U ug/l (1.)
1,1-Dichloroethene	1. U ug/l (1.)
1,2-Dichlorobenzene	1. U ug/l (1.)
1,2-Dichloroethane	1. U ug/l (1.)
1,2-Dichloropropane	1. U ug/l (1.)
1,3-Dichlorobenzene	1. U ug/l (1.)
1,4-Dichlorobenzene	1. U ug/l (1.)
Benzene	1. U ug/l (1.)
Bromodichloromethane	1. U ug/l (1.)
Bromoform	1. U ug/l (1.)
Bromomethane	1. U ug/l (1.)

Sample Identifier	CEF-605-6S
Sample Collect Date	5/20/99
Analyte	
Carbon tetrachloride	1. U ug/l (1.)
Chlorobenzene	1. U ug/l (1.)
Chloroethane	2. U ug/l (2.)
Chloroform	1. U ug/l (1.)
Chloromethane	2. U ug/l (2.)
cis 1,2-Dichloroethene	1. U ug/l (1.)
Dibromochloromethane	1. U ug/l (1.)
Dichlorodifluoromethane	1. U ug/l (1.)
Ethylbenzene	7.8 ug/l (1.)
Methylene chloride	2. U ug/l (2.)
o-Xylene	1. U ug/l (1.)
Tetrachloroethene	1. U ug/l (1.)
Toluene	1.3 I ug/l (1.)
trans 1,2-Dichloroethene	1. U ug/l (1.)
Trichloroethene	1. U ug/l (1.)
Trichlorofluoromethane	2. U ug/l (2.)
Vinyl chloride	1. U ug/l (1.)

Footnotes: Values in parentheses are detection limits

APPENDIX C

SOURCE REMOVAL REPORT

SOURCE REMOVAL REPORT
Revision No.: 01

UST 605

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Unit Identification Code: N60200
Contract No. N62467-98-D-0995, CTO No. 0002

Prepared by:
CH2M HILL Constructors, Inc.
115 Perimeter Center Place, N.E., Suite 700
Atlanta, Georgia 30346

Prepared for:
Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29418

Bryan Kizer, Engineer-in-Charge

June 1999

CERTIFICATION OF TECHNICAL
DATA CONFORMITY (JUNE 1999)

The contractor, CH2M HILL Constructors, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0002 are complete and accurate and comply with all requirements of this contract.

DATE: June 5, 1999

NAME AND TITLE OF CERTIFYING OFFICIAL: Norman N. Hatch, Jr., P.E.
Contract Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Charles A. Radford
Charles A. Radford
Project Technical Lead

TABLE OF CONTENTS

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1.1	Site Background	1-1	00	03/05/99
1.2	Project Objectives	1-1	00	03/05/99
2.0	Source Removal Activities	2-1	00	03/05/99
2.1	Site Preparation	2-1	00	03/05/99
2.2	Soil Excavation and Disposal	2-1	00	03/05/99
2.2.1	Soil Excavation	2-1	00	03/05/99
2.2.2	Soil Transportation and Disposal	2-1	00	03/05/99
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	Appendix A: Photographs			
	Appendix B: Well Abandonment Report			
	Appendix C: Manifests for Soil Disposal			
	Appendix D: Clean Fill Certification			
	Appendix E: Soil KAG Analytical Results			

GLOSSARY

bls	below land surface
CCI	CH2M HILL Constructors Inc.
CTO	Contract Task Order
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FID	flame ionization detector
HLA	Harding Lawson Associates
KAG	kerosene analytical group
NAS	Naval Air Station
OVA	organic vapor analyzer
PAHs	polynuclear aromatic hydrocarbons
PID	photoionization detector
Ppm	parts per million
SA	Site Assessment
SCTLs	selected soil cleanup target levels
SJRWMD	St. Johns River Water Management District
SOUTHNAV-FACENGCOM	Southern Division, Naval Facilities Engineering Command
SPLP	synthetic precipitation leaching procedure
TRPH	total recoverable petroleum hydrocarbons
UST	underground storage tank
VOCs	volatile organic compounds

1.0 INTRODUCTION

CH2M HILL Constructors, Inc. (CCI) was contracted by the Southern Division Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) to excavate petroleum-contaminated soil and prepare a Source Removal Report for the Underground Storage Tank (UST) Site 605 at Naval Air Station (NAS) Cecil Field in Jacksonville, Florida. The Source Removal was conducted in accordance with the Florida Department of Environmental Protection (FDEP) Petroleum Contamination Site Cleanup rule 62-770, Florida Administrative Code (FAC).

The scope of services for excavation of petroleum-contaminated soils at UST 605 is described in detail in the NAS Cecil Field Basewide Work Plan, Revision 1 (CCI, 1998a) and the Work Plan Addendum No. 1, Revision 1 (CCI, 1998b). This work was authorized under the Remedial Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0002.

1.1 SITE BACKGROUND. UST 605 was a 3,000-gallon heating oil tank located in the Yellow Waters Weapons Complex. The tank was used to store fuel for onsite heating of Building 605, which served as a housing facility for Marine personnel. UST 605 was removed April 8, 1997. No soil was excavated at the time the UST was removed (ABB, 1997). Subsequently, excessively contaminated soils were identified around UST 605 during the Site Assessment (SA) and a Source Removal was recommended (HLA, 1998). The proposed limits of the excavation area were determined during the SA by using both headspace analysis and laboratory analyses. A site plan showing the results of the SA soil delineation and the site conditions prior to the Source Removal is presented in Figure 1-1.

1.2 PROJECT OBJECTIVES. The primary objective of the soil excavation at UST 605 was to remove petroleum-contaminated soils that exceed the Selected Soil Cleanup Target Levels (SCTLs) outlined in FAC 62-770. FDEP allows the use of headspace analysis as a screening tool in evaluating whether the soil samples exceed the SCTLs. Under headspace analysis, soil samples are screened using an organic vapor analyzer (OVA) equipped with a flame ionization detector (FID) in accordance with the procedures outlined in FAC 62-770.200(8). Soils with an OVA reading exceeding 50 part per million (ppm), based on the kerosene analytical group (KAG), are considered to be excessively contaminated and are expected to contain constituents exceeding the SCTLs. Confirmatory sampling is required under FAC 62-770.200(8), where the OVA results are confirmed by laboratory analysis for the KAG. The KAG analysis for soils includes volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and total recoverable petroleum hydrocarbons (TRPH) by the FLO-PRO method.

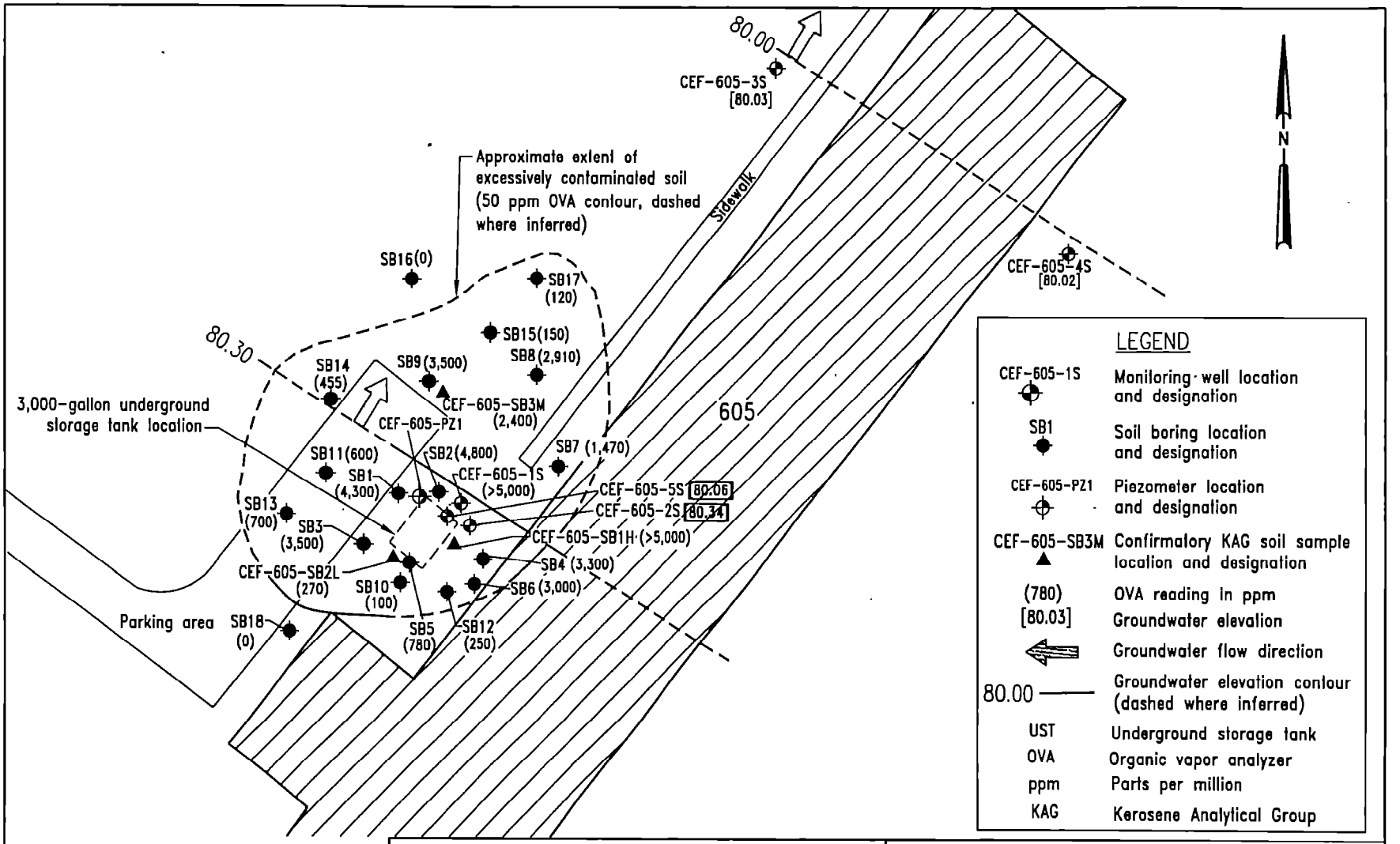


FIGURE 1-1
TANK 605
EXISTING CONDITIONS

SOURCE REMOVAL REPORT
BUILDING 605, TANK 605

NAVAL AIR FIELD CECIL FIELD
JACKSONVILLE, FLORIDA

7895FG63.DWG

2.0 SOURCE REMOVAL ACTIVITIES

A Source Removal was conducted at UST 605 on January 8 and 12, 1999. Petroleum-contaminated soil was excavated from the area around the former location of the UST and disposed of offsite. No free product was found during the excavation. Photographs showing the site during and after the Source Removal are presented in Appendix A.

2.1 SITE PREPARATION. In preparation for excavation, monitoring wells CEF-605-1S and CEF-605-5D were abandoned on January 5, 1999. The wells, abandoned in accordance with St. Johns River Water Management District (SJRWMD) regulations, were filled with a cement-bentonite grout. The well abandonment report is presented in Appendix B. The location of a gas line in the proposed excavation area was identified prior to beginning excavation.

2.2 SOIL EXCAVATION AND DISPOSAL. Soils were initially excavated based on the limits of the excessively contaminated soil delineated as part of the SA. The walls of the excavation were screened using headspace analysis to determine if additional soil should be excavated.

2.2.1 Soil Excavation. The soil was excavated to approximately 1 foot below the water table, to a depth of approximately 7 feet below land surface (bls). The depth to groundwater was originally estimated from the monitoring well CEF-605-1S, which was later abandoned. Immediately prior to excavation, the water table was determined by hand augering bore holes and measuring the depth to water. The groundwater level was confirmed by visual observation during the excavation.

The soil was excavated using a trackhoe and was immediately loaded into waiting trucks. No contaminated soil was stockpiled onsite. Based on the manifests, 874 tons of petroleum-contaminated soil were excavated and disposed of offsite. Soil was excavated on each side of a gas line that transected the excavation area. For safety reasons, a buffer distance of 2.5 feet on each side of the gas line was maintained. The two excavation areas separated by the gas line were approximately 62 feet long, 27 feet wide, and 7 feet deep and approximately 64 feet long, 9.5 feet wide, and 7 feet deep, corresponding to approximately 587 cubic yards. The excavation areas are shown in Figure 2-1.

2.2.2 Soil Transportation and Disposal. The petroleum-contaminated soil was transported offsite by truck to the Kedesh, Inc. soil thermal treatment facility in Kingsland, Georgia. A summary of the manifests is presented in Table 2-1 and copies of the manifests are presented in Appendix C.

Table 2-1
Summary of Manifests for Soil Disposal

Date	Truck #	Company	Manifest #	Weight (pounds)	Tare (pounds)	Net (pounds)
1/8/99	209	Modlin	CF 1080	64480	23600	40880
1/8/99	210	Modlin	CF 1081	62420	23500	38920
1/8/99	9800	Modlin	CF 1082	62040	22600	39440
1/8/99	9803	Modlin	CF 1083	64240	22600	41640
1/8/99	9802	Modlin	CF 1084	62760	23200	39560
1/8/99	9801	Modlin	CF 1085	68960	22600	46360
1/8/99	202	Modlin	CF 1086	60240	22700	37540
1/8/99	9809	Modlin	CF 1087	65400	23360	42040
1/8/99	9804	Modlin	CF 1088	73600	23189	50411
1/8/99	602	Modlin	CF 1089	66560	23680	42880

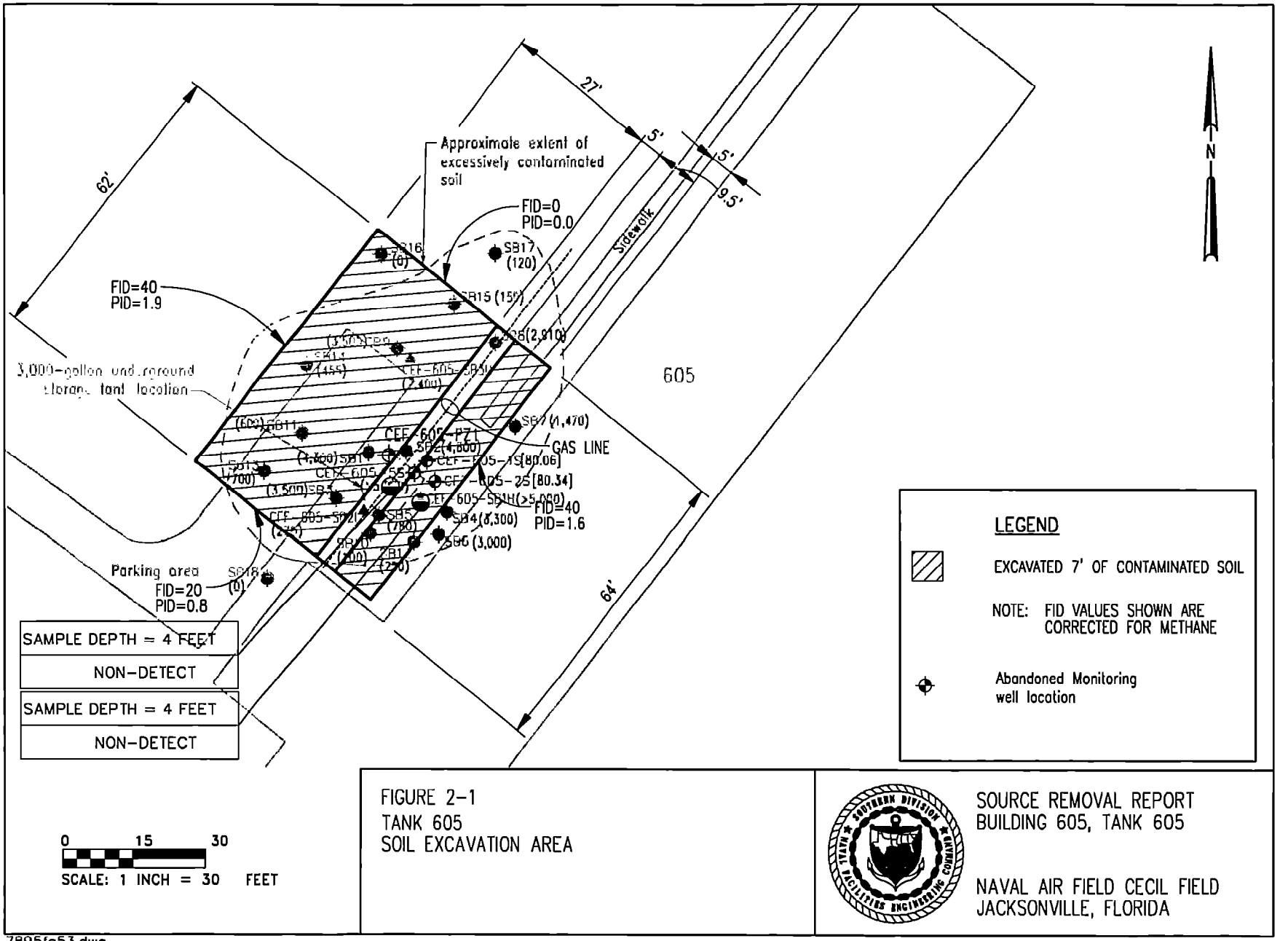


FIGURE 2-1
TANK 605
SOIL EXCAVATION AREA

SOUTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND

SOURCE REMOVAL REPORT
BUILDING 605, TANK 605

NAVAL AIR FIELD CECIL FIELD
JACKSONVILLE, FLORIDA

7895fg53.dwg

Table 2-1 Continued
Summary of Manifests for Soil Disposal

Date	Truck #	Company	Manifest #		Weight (pounds)	Tare (pounds)	Net (pounds)
1/8/99	9702	Modlin	CF	1090	60360	22600	37760
1/8/99	209	Modlin	CF	1091	75740	23680	52060
1/8/99	210	Modlin	CF	1092	62500	23500	39000
1/8/99	9800	Modlin	CF	1093	60520	22600	37920
1/8/99	9802	Modlin	CF	1094	67680	23200	44480
1/8/99	9803	Modlin	CF	1095	67360	22600	44760
1/8/99	9801	Modlin	CF	1096	64420	22600	41820
1/8/99	202	Modlin	CF	1097	64540	22700	41840
1/8/99	9809	Modlin	CF	1098	63940	23360	40580
1/8/99	226	Modlin	CF	1099	63000	22600	40400
1/8/99	9804	Modlin	CF	1100	66000	23180	42820
1/8/99	602	Modlin	CF	1101	66080	23160	42920
1/8/99	9702	Modlin	CF	1102	68660	22600	46060
1/8/99	209	Modlin	CF	1103	71720	23680	48040
1/8/99	210	Modlin	CF	1104	62880	22800	40080
1/8/99	9800	Modlin	CF	1105	65720	22600	43120
1/8/99	9802	Modlin	CF	1106	61200	22600	38600
1/8/99	9803	Modlin	CF	1107	61180	22600	38580
1/8/99	9801	Modlin	CF	1108	64120	22600	41520
1/8/99	209	Modlin	CF	1109	70780	23680	47100
1/12/99	9803	Modlin	CF	1110	61400	22600	38800
1/12/99	9801	Modlin	CF	1111	60440	22600	37840
1/12/99	202	Modlin	CF	1112	68620	22700	45920
1/12/99	209	Modlin	CF	1113	66440	23680	42760
1/12/99	210	Modlin	CF	1114	68260	23200	45060
1/12/99	9800	Modlin	CF	1115	66000	22600	43400
1/12/99	9802	Modlin	CF	1116	65580	23200	42380
1/12/99	9809	Modlin	CF	1117	65400	23300	42100
1/12/99	9803	Modlin	CF	1118	68440	22600	45840
1/12/99	9801	Modlin	CF	1119	71300	22600	48700
1/12/99	209	Modlin	CF	1120	70400	23680	46720
		Number of Truck Loads =		41		Total Weight (pounds) =	1748651
						Total Weight (tons) =	874.33

2.2.3 Backfilling and Site Restoration. The material used to backfill the excavation was clean fill brought in from a borrow pit operated by Anderson-Columbia, Inc. in Maxville, Florida. A copy of the letter certifying that the material was clean fill is presented in Appendix D.

Once the excavation area was backfilled, the site was graded and seeded with Bahia grass.

2.3 SAMPLING AND ANALYSIS. Soil samples were collected from the walls of the excavation at a depth of 4.5 feet bls. Because soils were excavated to 1 foot below the water table, no samples were collected from the floor of the excavation. The sampling locations are shown in Figure 2-1.

2.3.1 Headspace Analysis. Soil samples collected from the UST 605 excavation were screened using an OVA equipped with an FID in accordance with the procedures outlined in 62-770.200(8) FAC. A methane filter was used to correct the results. Samples were also screened using a

photoionization detector (PID). The results of the headspace analyses are shown in Table 2-2. All headspace results were below 50 ppm.

Table 2-2
Summary of Headspace Screening Results

Station ID	Depth (ft bls)	FID Unfiltered (ppm)	FID with Filter (ppm)	FID Corrected (ppm)	PID (ppm)
North	4.5	280	280	0	0.0
South	4.5	900	880	20	0.8
East	4.5	960	920	40	1.6
West	4.5	860	820	40	1.9

2.3.2 KAG Analysis. Two soil samples were collected for SPLP KAG analysis. The results were non-detect for all KAG parameters (Appendix E).

3.0 CONCLUSIONS

A total of 874 tons of petroleum-contaminated soils at UST 605 that were identified during the SA have been removed and disposed of offsite. The soil was excavated to approximately 1 foot below the water table, to a depth of approximately 7 feet bls. The horizontal limits of the excavation had headspace results (OVA with FID) of less than 50 ppm. Two soil samples analyzed for SPLP KAG were non-detect, confirming that the horizontal limits were achieved. No free product was found during the excavation.

REFERENCES

ABB Environmental Services, Inc., 1997, Confirmatory Sampling Report, Building 605, Tank 605, BRAC UST and AST Grey Sites, NAS Cecil Field, Jacksonville, Florida, October.

CH2M HILL Constructors, Inc., 1998a, Basewide Work Plan, Revision No. 1, NAS Cecil Field, Jacksonville, Florida: prepared for Southern Division Naval Facilities Engineering Command, November.

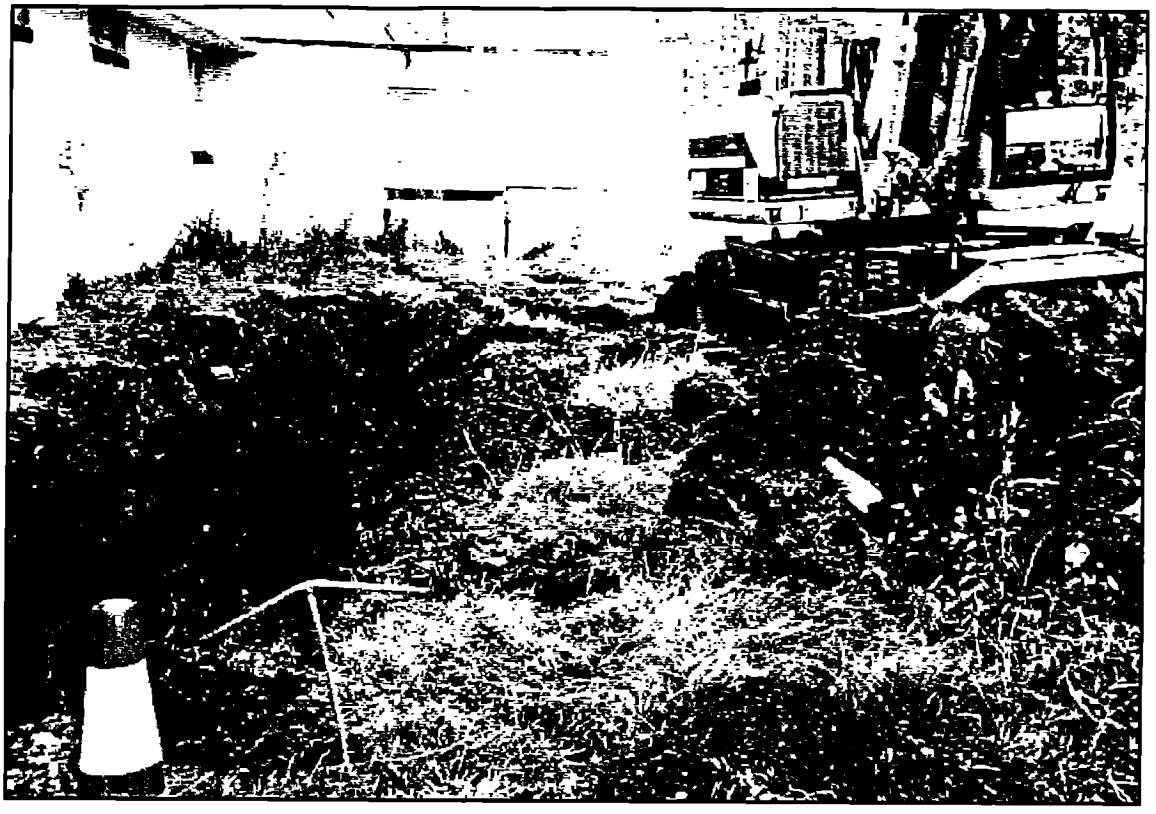
CH2M HILL Constructors, Inc., 1998b, Work Plan Addendum No. 1, Revision No. 1, Excavation of Petroleum-Contaminated Soil from 11 Former UST Sites and the Day Tank 2 Area, NAS Cecil Field, Jacksonville, Florida: prepared for Southern Division Naval Facilities Engineering Command, November.

Harding Lawson Associates (HLA), 1998, Site Assessment Report, Building 605, Tank 605, BRAC UST and AST Grey Sites, NAS Cecil Field, Jacksonville, Florida, September.

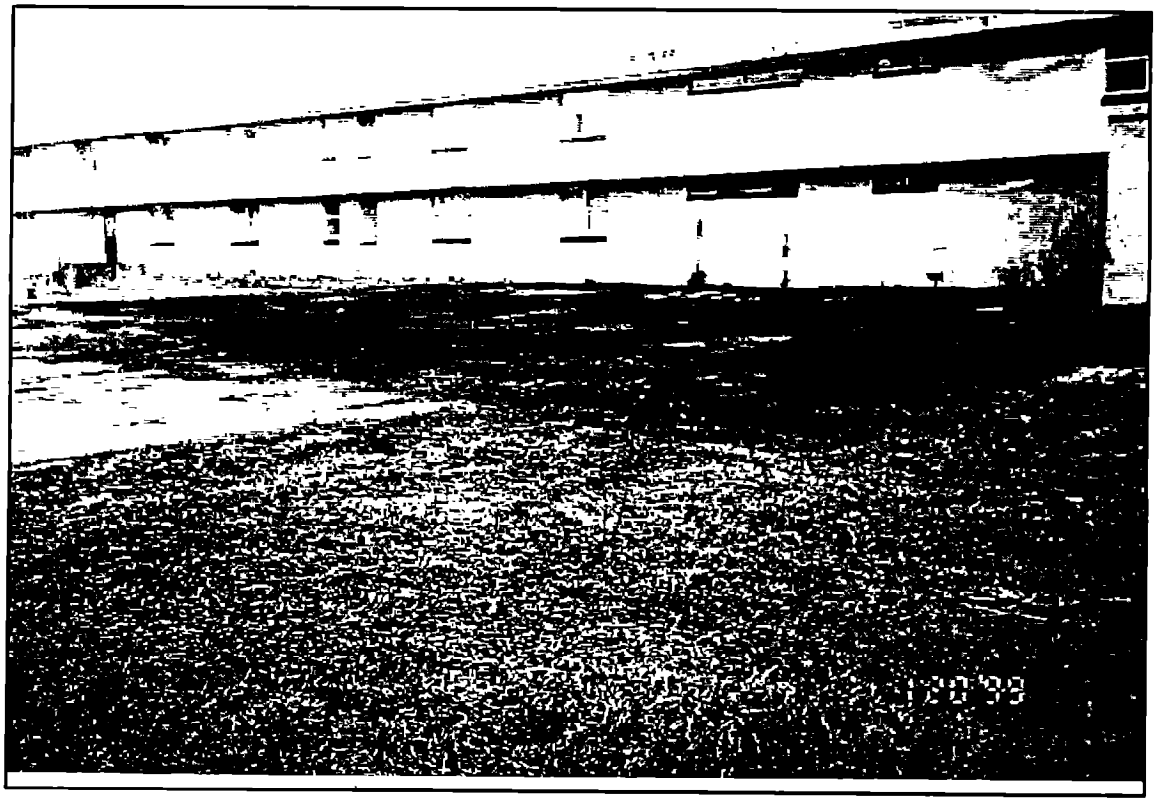
Southern Division Naval Facilities Engineering Command Quality Improvement Forum,1998, A Guideline for the Preparation of Remedial Action Reports/Closure Reports, Revision 0, May 11.

Southern Division Naval Facilities Engineering Command, 1996, Environmental Report Format Guidance Manual, Revision No. 5, October 9.

APPENDIX A
PHOTOGRAPHS



EXCAVATION IN PROGRESS



SITE RESTORATION

UST SITE
BUILDING 605
YELLOW WATER

CH2MHILL

APPENDIX B
WELL ABANDONMENT REPORT

CAL-TECH TESTING, INC.
ENGINEERING & TESTING LABORATORY
P.O. Box 1625, Lake City, FL 32056-1625
6900 Phillips Hwy., Ste. 3, Jacksonville, FL 32216
7850 Rex Drive, Milton, FL 32570

Lake City • (904) 755-3633
Fax • (904) 752-5456
Jacksonville • (904) 296-7201
Fax • (904) 296-7202
Milton • (904) 626-0080
Fax • (904) 626-0190

January 6, 1999

NAS Cecil Field
Attn: CH2M Hill Constructors, Inc.
13200 Normandy Blvd.
1st Street, Bldg. 884
Jacksonville, Florida 32215
Attn: Mr. Charlie Radford

Subject: Report of Monitoring Well Abandonment
Various UST Sites
NAS Cecil Field
Jacksonville, Florida
Cal-Tech Project No. 98-313

Dear Mr. Radford,

Cal-Tech Testing abandoned eleven monitoring wells for the subject project on January 5, 1999. These wells were all 2 inches in diameter. The wells were filled with a cement-bentonite grout which was tremmied to the bottom of each. The grout displaced the groundwater to the top of the well where it was captured and containerized. The table below shows the depth and diameter of each well:

Monitoring Well No.	Diameter	Depth, Ft.
CEF-605-1S	2"	12' 1"
CEF-605-5D	2"	30' 3"
CEF-607-1S	2"	12' 4"
CEF-639-1S	2"	13' 2"
CEF-623-4D	2"	29' 6"
CEF-623-1S	2"	12' 2"
CEF-F-15	2"	14' 5"
CEF-880-1S	2"	14' 7"
CEF-502-5D	2"	30' 0"
CEF-502-2S	2"	13' 2"
CEF-502-1S	2"	10' 6"
TOTAL		192' 2"

Copies of the well abandonment reports are attached. These reports will be provided to the St. Johns Water Management District and The City of Jacksonville.

We have enjoyed serving you thus far. If you have any questions please contact us.

Very truly yours,
CAL-TECH TESTING, INC.

Lewis E. Hay, P.E., P.G.
Sr. Engineer

Calvin C. Creamer, Jr.
General Manager

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # _____ CUP/WUP # _____ DID # _____

permit is for multiple wells indicate the number of wells drilled _____.

dicate remaining wells to be cancelled _____.

WATER WELL CONTRACTOR'S SIGNATURE [signature] License # 11026

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (FL)	To (FL)
Neat Cement:	1/3	0	12.1
Bentonite:			

WELL LOCATION: County Duval

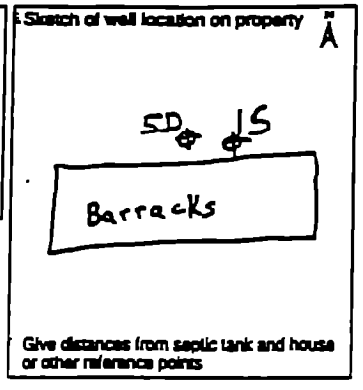
NW 1/4 of NE 1/4 of Section 10 Twp: 3S Rge: 24E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property



Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chloride: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ FL Intake Depth _____ FL

Form 408-3-3 Rev. 12/95

OWNER'S NAME US Navy - NAS Cecil Field

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public ___ Irrigation ___ Domestic ___ Monitor X

HRS Limited ___ 62-524 ___ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [X] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level

After ___ Hours at ___ G.P.M. Measuring Pt. (Describe): _____

Which is ___ Ft. [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [X] PVC Other _____

[ ] Open Hole [ ] Screen	Depth (FL)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones.
Casing Diameter & Depth (FL)	From	To	Color | Grain Size | Type of Material
Diameter 2" From 0 To 12' 1"	0	12.1	Cement-bentonite grout
			Abandoned Well
Diameter ___ From ___ To ___			
			No CEF-605-1S
Liner [ ] or Casing [ ] Diameter ___ From ___ To ___			--

Driller's Name: (print or type) Frank Linehan

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # _____ CUP/WUP # _____ DID # _____

permit is for multiple wells indicate the number of wells drilled _____.

licate remaining wells to be cancelled _____.

WATER WELL CONTRACTOR'S SIGNATURE [signature] License # 11026

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (FL)	To (FL)
Neat Cement:	1	0	30.2
Bentonite:	1/4		

WELL LOCATION: County Duval

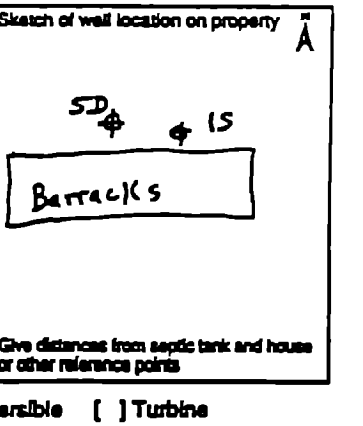
NW 1/4 of NE 1/4 of Section 10 Twp: 3S Rge: 24E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property



Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chloride: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ FL Intake Depth _____ FL

OWNER'S NAME US Navy - NAS Cecil Field

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public ___ Irrigation ___ Domestic ___ Monitor X

HRS Limited ___ 62-524 ___ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [X] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level _____

After ___ Hours at ___ G.P.M. Measuring Pt. (Describe): _____

Which is ___ Ft. [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [X] PVC Other _____

[ ] Open Hole [ ] Screen	Depth (FL)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones.
Casing Diameter & Depth (FL)	From	To	Color | Grain Size | Type of Material
Diameter 2" From 0 To 30.2	0	30.2	Cement-bentonite grout
Diameter ___ From ___ To ___			Abandoned Well
			No CEF-605-SD
Liner [ ] or Casing [ ] Diameter ___ From ___ To ___			

Driller's Name: (print or type) Frank Linehan

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # _____ CUP/WUP # _____ DID # _____

If permit is for multiple wells indicate the number of wells drilled _____.

Indicate remaining wells to be cancelled _____.

WATER WELL CONTRACTOR'S SIGNATURE [signature] License # 11026

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (FL)	To (FL)
Neat Cement:	1/3	0	12.3
Bentonite:			

WELL LOCATION: County Duval

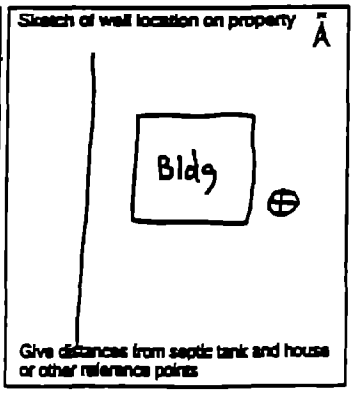
NW 1/4 of NE 1/4 of Section 10 Twp: 3S Rge: 24E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property



Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chloride: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ FL Intake Depth _____ FL

Form 408-3-3 Rev. 12/95

OWNER'S NAME _____

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public ____ Irrigation ____ Domestic ____ Monitor X

HRS Limited ____ 62-524 ____ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [X] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level _____

After ____ Hours at ____ G.P.M. Measuring Pt. (Describe): _____

Which is ____ FL [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [X] PVC Other _____

[ ] Open Hole [ ] Screen	Depth (FL)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color | Grain Size | Type of Material
Casing Diameter & Depth (FL)	From	To	
Diameter 2" From 0 To 12.3	0	12.3	Cement Bentonite grou
			Abandoned Well No
Diameter ____ From ____ To ____			CEF-607-1S
Liner [ ] or Casing [ ] Diameter ____ From ____ To ____			

Driller's Name: (print or type) Frank Linehan

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # _____ CUP/WUP # _____ DID # _____

If permit is for multiple wells indicate the number of wells drilled _____.

Indicate remaining wells to be cancelled _____

WATER WELL CONTRACTOR'S SIGNATURE [signature] License # _____

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (FL)	To (FL)
Neat Cement:	1/3	0	13.2
Bentonite:			

WELL LOCATION: County Duval

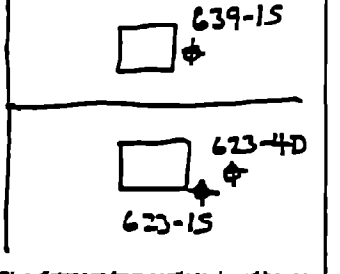
SE 1/4 of NE 1/4 of Section 3 Twp: 3S Rge: 24E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property



Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chloride: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ FL Intake Depth _____ FL

Form 408-3-3 Rev. 12/95

OWNER'S NAME US Navy - NAS Cecil Field

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public ____ Irrigation ____ Domestic ____ Monitor X

HRS Limited ____ 62-524 ____ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [X] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level _____

After ____ Hours at ____ G.P.M. Measuring Pt. (Describe): _____

Which is ____ FL [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [X] PVC Other _____

[ ] Open Hole [ ] Screen	Depth (FL)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color | Grain Size | Type of Material
Casing Diameter & Depth (FL)	From	To	
Diameter 2" From 0 To 13.2	0	13.2	CEMENT-Bentonite grout
			Abandoned Well No
Diameter ____ From ____ To ____			CEF-639-1S
Liner [ ] or Casing [ ] Diameter ____ From ____ To ____			

Driller's Name: (print or type) Frank Linehan

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # _____ CUP/WUP # _____ DID # _____

If permit is for multiple wells indicate the number of wells drilled _____.

Indicate remaining wells to be cancelled _____.

WATER WELL CONTRACTOR'S SIGNATURE [signature] License # 11026

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (Ft.)	To (Ft.)
Neat Cement:	1/3	0	12.2
Bentonite:			

WELL LOCATION: County Duval

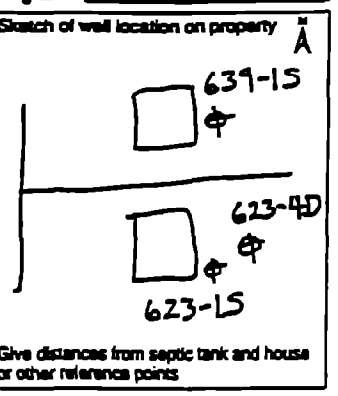
SE 1/4 of NE 1/4 of Section 3 Twp: 3S Rge: 24E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property



Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chloride: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ Ft. Intake Depth _____ Ft.

Form 408-3-3 Rev. 12/85

OWNER'S NAME US Navy - NAS Cecil Field

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public ___ Irrigation ___ Domestic ___ Monitor X

HRS Limited ___ 62-524 ___ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [X] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level _____

After ___ Hours at ___ G.P.M. Measuring Pt. (Describe): _____

Which is ___ Ft. [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [X] PVC Other _____

[ ] Open Hole [ ] Screen	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones.
Casing Diameter & Depth (Ft.)	From	To	Color | Grain Size | Type of Material
Diameter 2" From 0 To 12.2	0	12.2	Cement Bentonite grout
Diameter ___ From ___ To ___			Abandoned Well No
			CEF-623-1S
Liner [ ] or Casing [ ] Diameter ___ From ___ To ___			

Driller's Name: (print or type) Frank Linehan

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # _____ CUP/WUP # _____ DID # _____

If permit is for multiple wells indicate the number of wells drilled _____.

Indicate remaining wells to be cancelled _____.

WATER WELL CONTRACTOR'S SIGNATURE [signature] License # 11026

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (Ft.)	To (Ft.)
Neat Cement:	1	0	29.5
Bentonite:	1/4		

WELL LOCATION: County Duval

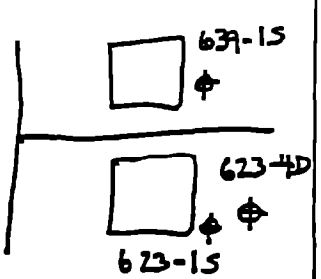
SE 1/4 of NE 1/4 of Section 3 Twp: 3S Rge: 24E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property



Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chloride: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ Ft. Intake Depth _____ Ft.

Form 408-3-3 Rev. 12/85

OWNER'S NAME US Navy - NAS Cecil F

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public ___ Irrigation ___ Domestic ___ Monitor X

HRS Limited ___ 62-524 ___ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [X] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level _____

After ___ Hours at ___ G.P.M. Measuring Pt. (Describe): _____

Which is ___ Ft. [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [X] PVC Other _____

[ ] Open Hole [ ] Screen	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones.
Casing Diameter & Depth (Ft.)	From	To	Color | Grain Size | Type of Material
Diameter 2" From 0 To 29.5	0	29.5	Cement Bentonite grout
Diameter ___ From ___ To ___			Abandoned Well No
			CEF 623-4D
Liner [ ] or Casing [ ] Diameter ___ From ___ To ___			

Driller's Name: (print or type) Frank Linehan

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # _____ CUP/WUP # _____ DID # _____

If permit is for multiple wells indicate the number of wells drilled _____.

Indicate remaining wells to be cancelled _____.

WATER WELL CONTRACTOR'S SIGNATURE [signature] License # 11026

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (FL)	To (FL)
Neat Cement:	1/3	0	14.4
Bentonite:			

WELL LOCATION: County Duval

NE 1/4 of SE 1/4 of Section 15 Twp: 3S Rge: 24E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property

Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chloride: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ FL Intake Depth _____ FL

Form 408-3-3 Rev. 12/95

OWNER'S NAME US Navy NAS Cecil Field

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public ___ Irrigation ___ Domestic ___ Monitor X

HRS Limited ___ 62-524 ___ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [X] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level _____

After ___ Hours at ___ G.P.M. Measuring Pt. (Describe): _____

Which is ___ FL [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [X] PVC Other _____

[ ] Open Hole [ ] Screen	Depth (FL)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones.
Casing Diameter & Depth (FL)	From	To	Color | Grain Size | Type of Material
Diameter 2" From 0 To 14.4	0	14.4	Cement-Bentonite grout
			Abandoned Well No
Diameter ___ From ___ To ___			CEF-F-15
Liner [ ] or Casing [ ] Diameter ___ From ___ To ___			

Driller's Name: (print or type) Frank Linehan

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # _____ CUP/WUP # _____ DID # _____

If permit is for multiple wells indicate the number of wells drilled _____.

Indicate remaining wells to be cancelled _____.

WATER WELL CONTRACTOR'S SIGNATURE [signature] License # 11026

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (FL)	To (FL)
Neat Cement:	1/3	0	14.6
Bentonite:			

WELL LOCATION: County Duval

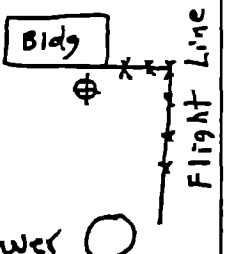
SE 1/4 of NW 1/4 of Section 23 Twp: 3S Rge: 24E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property



Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chloride: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ FL Intake Depth _____ FL

Form 408-3-3 Rev. 12/95

OWNER'S NAME US Navy - NAS Cecil Field

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public ___ Irrigation ___ Domestic ___ Monitor X

HRS Limited ___ 62-524 ___ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [X] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level _____

After ___ Hours at ___ G.P.M. Measuring Pt. (Describe): _____

Which is ___ FL [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [X] PVC Other _____

[ ] Open Hole [ ] Screen	Depth (FL)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones.
Casing Diameter & Depth (FL)	From	To	Color | Grain Size | Type of Material
Diameter 2" From 0 To 14.6	0	14.6	Cement-Bentonite grout
Diameter ___ From ___ To ___			Abandoned Well No
			CEF-880-15
Liner [ ] or Casing [ ] Diameter ___ From ___ To ___			

Driller's Name: (print or type) Frank Linehan

PERMIT # _____ CUP/WUP # _____ DID # _____

If permit is for multiple wells indicate the number of wells drilled _____.

Indicate remaining wells to be cancelled _____.

WATER WELL CONTRACTOR'S SIGNATURE [signature] License # 11026

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (FL)	To (FL)
Neat Cement:	1/3	0	10.5
Bentonite:			

WELL LOCATION: County Duval

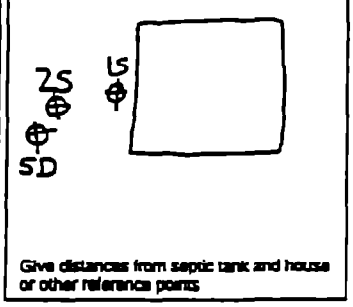
SE 1/4 of SE 1/4 of Section 13 Twp: 3S Rge: 24E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property



Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chloride: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ FL Intake Depth _____ FL

Form 408-3-3 Rev. 12/85

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public ___ Irrigation ___ Domestic ___ Monitor X

HRS Limited ___ 62-524 ___ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [X] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level

After ___ Hours at ___ G.P.M. Measuring Pt. (Describe): _____

Which is ___ FL [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [X] PVC Other _____

[ ] Open Hole [ ] Screen	Depth (FL)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color | Grain Size | Type of Material
Casing Diameter & Depth (FL)	From	To	
Diameter 2" From 0 To 10.5	0	10.5	Cement-bentonite grout
			Abandoned well No
Diameter ___ From ___ To ___			CEF-502-15
Liner [ ] or Casing [ ] Diameter ___ From ___ To ___			

Driller's Name: (print or type) Frank Linehan

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # _____ CUP/WUP # _____ DID # _____

If permit is for multiple wells indicate the number of wells drilled _____.

Indicate remaining wells to be cancelled _____.

WATER WELL CONTRACTOR'S SIGNATURE [signature] License # 11026

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (FL)	To (FL)
Neat Cement:	1/3	0	13.2
Bentonite:			

WELL LOCATION: County Duval

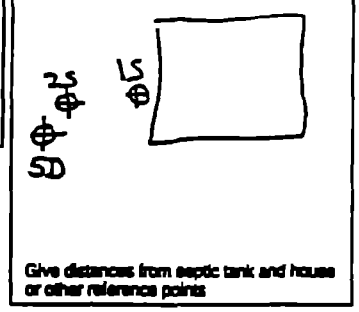
SE 1/4 of SE 1/4 of Section 13 Twp: 3S Rge: 24E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property



Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chloride: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ FL Intake Depth _____ FL

Form 408-3-3 Rev. 12/85

OWNER'S NAME US Navy-NAS Cecil F

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public ___ Irrigation ___ Domestic ___ Monitor X

HRS Limited ___ 62-524 ___ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [X] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level _____

After ___ Hours at ___ G.P.M. Measuring Pt. (Describe): _____

Which is ___ FL [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [X] PVC Other _____

[ ] Open Hole [ ] Screen	Depth (FL)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones. Color | Grain Size | Type of Material
Casing Diameter & Depth (FL)	From	To	
Diameter 2" From 0 To 13.2	0	13.2	Cement-bentonite grout
Diameter ___ From ___ To ___			abandoned well No.
			CEF-502-25
Line: [ ] or Casing [ ] Diameter ___ From ___ To ___			

Driller's Name: (print or type) Frank Linehan

WELL COMPLETION REPORT (Please complete in black ink or type.)

PERMIT # _____ CUP/WUP # _____ DID # _____

If permit is for multiple wells indicate the number of wells drilled _____.

Indicate remaining wells to be cancelled _____.

WATER WELL CONTRACTOR'S

SIGNATURE [signature] License # 1026

I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (Ft.)	To (Ft.)
Neat Cement:	1	0	30.0
Bentonite:	1/4		

WELL LOCATION: County Duval

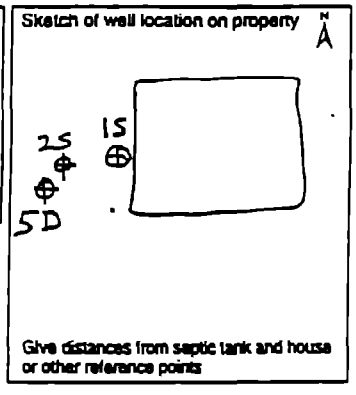
SE 1/4 of SE 1/4 of Section 13 Twp: 3S Rge: 24E

Latitude _____ Longitude _____

DATE STAMP

Official Use Only

Sketch of well location on property



Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS WHEN REQUIRED

Iron: ____ ppm Sulfate: ____ ppm

Chloride: ____ ppm

[ ] Lab Test [ ] Field Test Kit

Pump Type

[ ] Centrifugal [ ] Jet [ ] Submersible [ ] Turbine

Horsepower _____ Capacity _____ G.P.M. _____

Pump Depth _____ Ft. Intake Depth _____ Ft.

Form 408-3-3 Rev. 12/95

OWNER'S NAME US Navy - NAS Cecil Field

COMPLETION DATE _____ Florida Unique I.D. _____

WELL USE: DEP/Public ____ Irrigation ____ Domestic ____ Monitor X

HRS Limited ____ 62-524 ____ Other _____

DRILL METHOD [ ] Rotary [ ] Cable Tool [ ] Combination

[ ] Jet [X] Auger Other _____

Measured Static Water Level _____ Measured Pumping Water Level _____

After ____ Hours at ____ G.P.M. Measuring Pt. (Describe): _____

Which is ____ Ft. [ ] Above [ ] Below Land Surface

Casing: [ ] Black Steel [ ] Galv. [X] PVC Other _____

[ ] Open Hole [ ] Screen	Depth (Ft.)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones.
Casing Diameter & Depth (Ft.)	From	To	Color | Grain Size | Type of Material
Diameter 2" From 0 To 30.0	0	30.0	Cement-bentonite grout
Diameter ____ From ____ To ____			Abandoned Well No
			CEF-502-5D
Liner [ ] or Casing [ ] Diameter ____ From ____ To ____			

Driller's Name: (print or type) Frank Linchan

APPENDIX C
SOIL DISPOSAL MANIFESTS

Truck #204
Mollin's

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF-1080

1. Page 1 of 1

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Mollin Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9498
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT		T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site# 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

12. GENERATOR'S CERTIFICATION: I certify the materials described above on the manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
LeRoy A Long	LeRoy A Long	01	08	99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
DAVID McGuire	David McGuire	1	8	99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Peggy Crews	Peggy Crews	1	8	99

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F-1031

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Mollin Trucking Co. 210

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 864-284-9448
B. Transporter's Phone
C. Facility's Phone

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	T		T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site #
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #1180

11. Special Handling Instructions and Additional Information
605 Mollin #210

12 GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month Day Year

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Elmer McGuirt
Signature: Elmer McGuirt
Month 01 Day 18 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews
Signature: Peggy Crews
Month 1 Day 18 Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF-1022

1. Page 1 of

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address: Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9489
B. Transporter's Phone
C. Facility's Phone

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil		DT		T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site #
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #11800

11. Special Handling Instructions and Additional Information
Bldg 605
Modlin's Trucking
Truck # 9800

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month 01 Day 08 Year 99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jeff Nicholson — Signature: Jeff Nicholson — Month 01 Day 08 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews — Signature: Peggy Crews — Month 1 Day 8 Year 99

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F-1083

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin Trucking Co 9803

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9[illegible]

B. Transporter's Phone

C. Facility's Phone 912-574-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	01	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #118.

11. Special Handling Instructions and Additional Information
Modlin's Trucking 9803

12. GENERATOR'S CERTIFICATION: I certify the materials described above on the manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month . Day . Year .

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: RANDY JENKINS — Signature: Randy Jenkins — Month 7 Day 8 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month . Day . Year .

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Creamer — Signature: Peggy Creamer — Month 7 Day 8 Year 92

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.P. 1084

1. Page 1 of 1

2. Generator's Name and Mailing Address
Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name
Modlin Trucking Co

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9110
B. Transporter's Phone
C. Facility's Phone 912-576-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil		DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #11800

11. Special Handling Instructions and Additional Information
Modlin Trucking
Truck #9802

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
LeRoy A Long	LeRoy A Long			

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Lerot Sterher	[illegible]	01	08	99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Peggy Graves	Peggy Graves	1	8	99

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F. 1035

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-289-9448
B. Transporter's Phone
C. Facility's Phone 912-579-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	D T	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #118.

11. Special Handling Instructions and Additional Information
Modlin's Trucking
Truck # 9801

12 GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month | Day | Year

TRANSPORTER

13 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Douglas L. FELTON
Signature: Douglas L. Felton
Month 10 | Day 18 | Year 99

14 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month | Day | Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by the manifest except as noted in Item 18.

Printed/Typed Name: Peggy Crews
Signature: Peggy Crews
Month 10 | Day 18 | Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF-1086

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address
Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name
Modlin Trucking Co

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9458
B. Transporter's Phone
C. Facility's Phone 912-579-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #11800

11. Special Handling Instructions and Additional Information
Modlin Trucking
Truck # 202

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month / Day / Year

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Joe Weydener
Signature: Joe Weydener
Month 07 Day 08 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month / Day / Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews
Signature: Peggy Crews
Month 11 Day 18 Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F-1087

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin Trucking Co

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9996
B. Transporter's Phone
C. Facility's Phone 912-579-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #1180

11. Special Handling Instructions and Additional Information
Modlin Trucking Co.
Truck # 9809

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month / Day / Year

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Deloris Williams
Signature: Deloris Williams
Month 01 Day 08 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month / Day / Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews
Signature: Peggy Crews
Month 1 Day 8 Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F. 1082

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address
Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

TRANSPORTER

4. Transporter 1 Company Name
Modlin Trucking Co.

5. Transporter 2 Company Name

A. Transporter's Phone 904-284-9446

B. Transporter's Phone

FACILITY

6. Designated Facility Name and Site Address
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

C. Facility's Phone 912-574-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	D.T	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #11800

11. Special Handling Instructions and Additional Information
Modlin Trucking Co.
Truck #9804

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month / Day / Year

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James F. Rowe
Signature: James F. Rowe
Month 01 Day 08 Year 98

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month / Day / Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Kevin Crews
Signature: Kevin Crews
Month 1 Day 8 Year 98

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF-1089

1. Page 1 of 1

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin Trucking Co

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9448
B. Transporter's Phone
C. Facility's Phone 912-576-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605

Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above

Job #5495/ Profile #1180

11. Special Handling Instructions and Additional Information

Modlin Trucking Co.
Truck # 602

12 GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month / Day / Year

13 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Allison — Signature: James Allison — Month / Day / Year 10 / 10 / 98

14 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month / Day / Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Michael Griffin — Signature: Michael Griffin — Month / Day / Year

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F-1090

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address
Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name
Modlin Trucking Co

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9446
B. Transporter's Phone
C. Facility's Phone 912-579-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	D T	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #11800

11. Special Handling Instructions and Additional Information
#5495
Modlin's Trucking
Truck # 9702.

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month . Day . Year .

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DWIGHT MOODY
Signature: Dwight Moody
Month 01 Day 16 Year 98

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month . Day . Year .

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Michael Griffin
Signature: Michael Griffin
Month . Day . Year .

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F-1091

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

TRANSPORTER

4. Transporter 1 Company Name: Mauldin Trucking Co

5. Transporter 2 Company Name:

A. Transporter's Phone 904-284-9448

B. Transporter's Phone

FACILITY

6. Designated Facility Name and Site Address
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

C. Facility's Phone 912-579-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	D T	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #118L

11. Special Handling Instructions and Additional Information
Mauldin Trucking Co.
#5495 Truck #209

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
LeRoy A Long	LeRoy A Long			

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
DAVID M Mauldin	David M Mauldin	11	18	89

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Peggy Crews	Peggy Crews	11	18	89

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F-1692

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address
Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name
Moulden Trucking Co 210

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9446
B. Transporter's Phone
C. Facility's Phone 912-576-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil		DT		T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #11800

11. Special Handling Instructions and Additional Information
#5495
Moulden Trucking Co.
Truck # ~~60,080~~ 210

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month Day Year

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Elmer McGhee
Signature: Elmer McGhee
Month 01 Day 08 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews
Signature: Peggy Crews
Month 11 Day 18 Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F-1093

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Moldin Trucking Co 9800

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9548

B. Transporter's Phone

C. Facility's Phone 912-576-2759

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit WW
a. Petroleum Contaminated Soil	001	T	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #1180u

11. Special Handling Instructions and Additional Information
#5495
Moldin Trucking Co.
Truck # 9800

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month / Day / Year

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jeff Nicholson — Signature: Jeff Nicholson — Month 01 Day 08 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month / Day / Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews — Signature: Peggy Crews — Month 1 Day 18 Year

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F.1094

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Moulin Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9448
B. Transporter's Phone
C. Facility's Phone 912-579-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	T	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #11800

11. Special Handling Instructions and Additional Information
Moulden Trucking Co.
Truck # 9802
5495

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month | Day | Year

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Stephen Lenol
Signature: [signature]
Month 10 | Day 11 | Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month | Day | Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews
Signature: Peggy Crews
Month 11 | Day 18 | Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F.1095

1. Page 1 of 1

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Mouldin Trucking Co

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone: 904-284-9445
B. Transporter's Phone:
C. Facility's Phone: 912-579-2759

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	D T	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #1180

11. Special Handling Instructions and Additional Information
#5495
Mouldin Trucking Co
Truck # 9803

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
LeRoy A Long	LeRoy A Long			

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Randy Jenkins	Randy Jenkins	01	08	99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Peggy Crews	Peggy Crews	1	8	99

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C# 1096

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Moulton Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-384-9918
B. Transporter's Phone
C. Facility's Phone 912-579-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	D T	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #11800

11. Special Handling Instructions and Additional Information
#5495
Moulton Trucking
Truck # 9801

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month / Day / Year

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Douglas L. Felton
Signature: Douglas L. Felton
Month 01 Day 08 Year 89

14. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: ~~Douglas L. Felton~~
Signature:
Month / Day / Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by the manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews
Signature: Peggy Crews
Month 1 Day 8 Year 89

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F/077

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Moulin Trucking Co

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-264-9448
B. Transporter's Phone
C. Facility's Phone 912-579-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #1180

11. Special Handling Instructions and Additional Information
#5495
Moulin's Trucking Co
Truck# 202.

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
LeRoy A Long	LeRoy A Long			

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Joe Weydener	Joe Weydener	01	08	99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Peggy Crews	Peggy Crews	1	18	99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF-1098

1. Page 1 of 1

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Moldin Trucking Co

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address: Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9448

B. Transporter's Phone

C. Facility's Phone 912-579-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #11800

11. Special Handling Instructions and Additional Information
#5495 Moldin's Trucking
Truck # 9804

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
LeRoy A Long	LeRoy A Long			

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Deloris Williams	Deloris Williams	10	10	99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Peggy Crews	Peggy Crews	11	18	99

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F. 1099

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address
Commanding Officer, Staff Civil Eng.
PO Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name
Moddin Trucking Co

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address
Kedesh Inc.
Hwy 17 North
Kingsland, GA 31548

A. Transporter's Phone 904-284-9448
B. Transporter's Phone
C. Facility's Phone 912-579-2739

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Site # 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/ Profile #11

11. Special Handling Instructions and Additional Information
#5495
Moddin Trucking Co
Truck # 226

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
LeRoy A Long	LeRoy A Long			

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Randell L Vukas	Randell L Vukas	03	30	99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.

Printed/Typed Name	Signature	Month	Day	Y
Peggy Crews	Peggy Crews	7	8	

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF-1100

1. Page 1 of 1

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin Trucking Co

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-288-9446
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #: 605

Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above

Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

#5495 Modlin Truckng Co. Truck # 9804

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month / Day / Year

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James F. Rowe — Signature: James F. Rowe — Month 01 Day 08 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month / Day / Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by the manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews — Signature: Peggy Crews — Month 1 Day 8 Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F-1101

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

TRANSPORTER

4. Transporter 1 Company Name: Moldin's Trucking Co

5. Transporter 2 Company Name:

A. Transporter's Phone: 904-284-9446

B. Transporter's Phone:

FACILITY

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

C. Facility's Phone: (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #: 605

Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above

Job #5495/Profile #1180

11. Special Handling Instructions and Additional Information

Moldin's Trucking Co-
Truck #602

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month / Day / Year

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Allison — Signature: James Al — Month 10 Day 10 Year 89

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month / Day / Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews — Signature: Peggy Crews — Month / Day 17 Year 18

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F.1102

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address
Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name
Medlin's Trucking Co.

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-288-9440
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10 Unit Wt/Vol
a. Petroleum Contaminated Soil	00.1	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above SITE #:
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information
Medlin's Trucking Co
Truck # 9702

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month / Day / Year

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DW. Wright Moody
Signature: Dwight Moody
Month 10 / Day 08 / Year 89

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month / Day / Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Rosa Crews
Signature: Peggy Crews
Month 7 / Day 8 / Year 89

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF 1103

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address: Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-5448

B. Transporter's Phone

C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #: 605

Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above

Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

Modlin's Trucking Co.
Truck # 209

TRANSPORTER

12 GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month / Day / Year

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: David McGuiet — Signature: David McGuiet — Month 01 Day 08 Year 89

14 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month / Day / Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews — Signature: Peggy Crews — Month 01 Day 18 Year 89

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F. 1164

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address
Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

TRANSPORTER

4. Transporter 1 Company Name
Modlin's Trucking Co.

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-9995
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
SITE #: 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information
Modlin Trucking Co.
Truck # 210

12 GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
LeRoy A Long	LeRoy A Long	01	08	99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Elmer McGuire	Elmer McGuire	01	08	99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Michael Griffin	Michael Griffin			

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF-1105

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

TRANSPORTER

4. Transporter 1 Company Name: Modlin Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-9445
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #: 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #1180

11. Special Handling Instructions and Additional Information
Modlin Trucking Co.
Truck #9800

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month / Day / Year

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jeff Nicholson
Signature: Jeff Nicholson
Month 01 Day 08 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month / Day / Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.

Printed/Typed Name
Signature
Month / Day / Year

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF 1106

1. Page 1 of

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin Trucking co

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-9448
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above SITE #: 605
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information
Modlin Trucking Co
Truck # 9802

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month Day Year

13. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lenox Stephen
Signature:
Month Day Year 09 08 99

14. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Michael Griffin
Signature:
Month Day Year

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF 1107

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin's Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-2849448

B. Transporter's Phone

C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	020	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above SITE #: 605

Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above

Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

Modlin Trucking Co.
Truck # 9803

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month / Day / Year

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Randy Jenkins — Signature: Randy Jenkins — Month 01 Day 08 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month / Day / Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Michael Griffin — Signature: Michael Griffin — Month / Day / Year

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F. 1108

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

TRANSPORTER

4. Transporter 1 Company Name: Modlin's Trucking Co.

5. Transporter 2 Company Name:

A. Transporter's Phone 904-284-7448

B. Transporter's Phone

FACILITY

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #: 605

Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above

Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

Modlin's Trucking Co.
Truck # 9801

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
LeRoy A Long	LeRoy A Long	01	08	99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Douglas L. Felton	Douglas L. Felton	01	08	99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Michael Griffin	Michael Griffin			

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F. 1107

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Medlin's Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address: Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-9448

B. Transporter's Phone

C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit WV/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #: 605

Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above

Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

Medlin's Trucking Co.
Truck # 299

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month 01 Day 08 Year 97

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: David McGuire — Signature: David McGuire — Month 01 Day 08 Year 97

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews — Signature: Peggy Crews — Month 1 Day 8 Year 97

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF 1110

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

TRANSPORTER

4. Transporter 1 Company Name: Medlin Trucking Co. 9803

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-389-9448
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #:
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long
Signature: LeRoy A Long
Month 11 Day 12 Year 99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Randy Jenkins
Signature: Randy Jenkins
Month 11 Day 12 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month Day Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.

Printed/Typed Name: Peggy Crews
Signature: Peggy Crews
Month 11 Day 12 Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F 1111

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

TRANSPORTER

4. Transporter 1 Company Name: Modlin's Trucking Co. 9801

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-254-9449
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	190-1	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #:
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above: Job #5495/Profile #1180

11. Special Handling Instructions and Additional Information

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month 1 Day 12 Year 99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Douglas L. Felton — Signature: Douglas L. Felton — Month 1 Day 12 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.

Printed/Typed Name: Peggy Lewis — Signature: Peggy Lewis — Month 1 Day 12 Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F 1142

1. Page 1 of

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Madlin's Trucking Co 202

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-9446
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #:
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month 1 Day 12 Year 99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Joe Weydener — Signature: Joe Weydener — Month 1 Day 12 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews — Signature: Peggy Crews — Month 1 Day 12 Year 99

GENERATOR — TRANSPORTER — FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF-1113

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin's Trucking Co. 209

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address: Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-9446
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	00.1	DT	2.2	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #:
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above: Job #5495/Profile #1180

11. Special Handling Instructions and Additional Information

TRANSPORTER

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long | Signature: LeRoy A Long | Month 1 | Day 12 | Year 99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVID M Street | Signature: David M Street | Month 1 | Day 12 | Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Month | Day | Year

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by the manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews | Signature: Peggy Crews | Month 1 | Day 12 | Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F-1114

1. Page 1 of 210

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Medlin Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address: Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-9948
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #:
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
LeRoy A Long	LeRoy A Long	11	12	99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Elmer McGuirt	Elmer McGuirt	11	12	99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Kenn Rem	Kenn Rem	11	12	99

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-E7115

1. Page 1 of 9800

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-389-9448
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #:
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month 1 Day 12 Year 99

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeff Nicholson — Signature: Jeff Nicholson — Month 1 Day 12 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month . Day . Year .

FACILITY

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Kevin Crews — Signature: Kevin Crews — Month 1 Day 12 Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F. 1116

1. Page 1 of 9802

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-384-9448
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #:
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month 11 Day 12 Year 99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Stephen Lynch — Signature: [illegible] — Month 11 Day 12 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Kevin Crews — Signature: [illegible] — Month 11 Day 12 Year 99

GENERATOR — TRANSPORTER — FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. CF1117

1. Page 1 of 9809

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name

5. Transporter 2 Company Name: Medlin's Trucking Co.

6. Designated Facility Name and Site Address
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-9448
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #:
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month 1 Day 12 Year 95

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Delois Williams — Signature: Delois Williams — Month 1 Day 12 Year 95

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month . Day . Year .

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Kevin Crews — Signature: Kevin Crews — Month 1 Day 12 Year 95

GENERATOR — TRANSPORTER — FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. 6F 1118

1. Page 1 of

GENERATOR

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-9446
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Perroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #:
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information
9803

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long | Signature: LeRoy A Long | Month 1 Day 12 Year 99

TRANSPORTER

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Randy Jenkins | Signature: Randy Jenkins | Month 1 Day 12 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

15. Discrepancy Indication Space

16. Facility, Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Kevin Crews | Signature: Kevin Crews | Month 1 Day 12 Year 99

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C-F-1119

1. Page 1 of

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin's Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address: Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-9448

B. Transporter's Phone

C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	001	DT	22	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above SITE #:

Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above

Job #5495/Profile #1180

11. Special Handling Instructions and Additional Information

9801

12. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month 11 Day 12 Year 99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Douglas L. Felton — Signature: Douglas L. Felton — Month 11 Day 12 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Peggy Crews — Signature: Peggy Crews — Month 11 Day 12 Year 99

GENERATOR — TRANSPORTER — FACILITY

ORIGINAL – RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. C.F. 1120

1. Page 1 of

2. Generator's Name and Mailing Address: Commanding Officer, Staff Civil Eng.
P.O. Box 108, Code 184, NAS Cecil Field
Jacksonville, FL 32215

3. Generator's Phone (904) 778-5620

4. Transporter 1 Company Name: Modlin's Trucking Co.

5. Transporter 2 Company Name:

6. Designated Facility Name and Site Address:
Kedesh, Inc.
Hwy 17 North
Kingsland, GA

A. Transporter's Phone 904-284-9448
B. Transporter's Phone
C. Facility's Phone (912) 729-7555

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Perroleum Contaminared Soil	001	DT	2.2	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above: SITE #:
Non-RCRA, Non-Hazardous

E. Handling Codes for Wastes Listed Above
Job #5495/Profile #11800

11. Special Handling Instructions and Additional Information

12 GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: LeRoy A Long — Signature: LeRoy A Long — Month 1 Day 12 Year 99

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: David McGirt — Signature: David McGirt — Month 1 Day 12 Year 99

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month . Day . Year .

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Michael Griffin — Signature: Michael Griffin — Month 1 Day 12 Year 99

GENERATOR — TRANSPORTER — FACILITY

ORIGINAL – RETURN TO GENERATOR

APPENDIX D
CLEAN FILL CERTIFICATION

CAL-TECH TESTING, INC.
ENGINEERING & TESTING LABORATORY
P.O. Box 1625, Lake City, FL 32056-1625
6900 Phillips Hwy., Ste. 3, Jacksonville, FL 32216
7850 Rex Drive, Milton, FL 32570

Lake City • (904) 755-9653
Fax • (904) 752-5458
Jacksonville • (904) 296-7201
Fax • (904) 296-7202
Milton • (904) 626-0080
Fax • (904) 626-0190

January 27, 1999

CH2MHILL Constructors, Inc.
115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346-1278
Attn: Charles Radford

RE: Response to Request for Information

Dear Mr. Radford:

The Cal-Tech Testing Team (CTT) is writing this letter in response to your request for information concerning the disposal of the liner and information concerning the source of fill material used for the backfilling operations at Day Tank 2 and the 8 UST locations at Naval Air Station Cecil Field.

The liner, excavated from the day tank 2 site, was shipped to the Trail Ridge Landfill in Baldwin, Florida. The landfill charges disposal by the size of the incoming container. The liner was shipped in two 20 cubic yard roll-off containers. The disposal charge was for 40 cubic yards. We have attached copies of the manifests indicating the volume of materials and the transporter information. No weigh tickets are available for this material.

The fill material used for the Day Tank 2 and 8 UST locations was native soil excavated from an Anderson Columbia Co. Inc. (ACCI) facility located in Maxville, Florida. The fill was from a natural sand bar formation. This material was undisturbed prior to use at the Naval Air Station Cecil Field projects.

Questions related to this item can be directed to myself at (904) 755-1196 and fax is (904) 758-9050.

Sincerely,
Cal-Tech Testing Team

Brian D. Bradley
Project Manager

Appendix E
Soil KAG Analytical Results

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: CH2M Hill Constructors, Inc.
Project No.: CTO No. 2 Former UST Sites
Matrix: Soil

Report No.: J990657
Date Sampled: 4/6/99
Date Submitted: 4/8/99
Date Reported: 4/20/99

SPLP Volatile Organics & Aromatic Hydrocarbons
EPA Method 1312/601/602
Units: µg/L

		Lab Code:	990657-1	990657-2	990657-3	990666-mb
		Dilution Factor:	10	10	10	1
		Date Analyzed:	4/10/99	4/10/99	4/10/99	4/10/99
Analytes	MRL	Sample Name:	605-SB1-4'	605-SB2-4'	880-SB1-4'	Method Blank
Dichlorodifluoromethane	10		U	U	U	U
Chloromethane	10		U	U	U	U
Vinyl Chloride	10		U	U	U	U
Bromomethane	10		U	U	U	U
Chlorethane	10		U	U	U	U
Trichlorofluoromethane	10		U	U	U	U
1,1-Dichloroethene	10		U	U	U	U
Methylene Chloride	10		U	U	U	U
Methyl-*tert*-butyl ether	10		U	U	U	U
trans-1,2-Dichloroethene	10		U	U	U	U
1,1-Dichloroethane	10		U	U	U	U
Chloroform	10		U	U	U	U
1,1,1-Trichlorethane	10		U	U	U	U
Carbon Tetrachloride	10		U	U	U	U
1,2-Dichloroethane	10		U	U	U	U
Benzene	10		U	U	U	U
Trichloroethene	10		U	U	U	U
1,2-Dichloropropane	10		U	U	U	U
Bromodichloromethane	10		U	U	U	U
cis-1,3-Dichloropropene	10		U	U	U	U
Toluene	10		U	U	U	U
trans-Dichlorpropene	10		U	U	U	U
1,1,2-Trichloroethane	10		U	U	U	U
Tetrachloroethene	10		U	U	U	U
Dibromochloromethane	10		U	U	U	U
Chlorobenzene	10		U	U	U	U
Ethylbenzene	10		U	U	U	U
m&p- Xylenes	10		U	U	U	U
o-Xylenes	10		U	U	U	U
Bromoform	10		U	U	U	U
1,1,2,2,-Tetrachloroethane	10		U	U	U	U
1,3-Dichlorobenzene	10		U	U	U	U
1,4-Dichlorobenzene	10		U	U	U	U
1,2-Dichlorobenzene	10		U	U	U	U
Surrogates	Acceptance Limits		Percent Recovery	Percent Recovery	Percent Recovery	Percent Recovery
Bromochloromethane	70-135		73	112	135	122
Bromofluorobenzene	70-135		73	72	73	71

U Not detected above the MRL

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: CH2M Hill Constructors, Inc.
Project No.: CTO No. 2 Former UST Sites
Matrix: Soil

Report No.: J990657
Date Sampled: 4/6/99
Date Submitted: 4/8/99
Date Reported: 4/20/99

SPLP Polynuclear Aromatic Hydrocarbons
EPA Methods 1312/3510/625
Units: µg/L

	Lab Code:	990657-1	990657-2	990657-3	990589-mb
	Dilution Factor:	1	1	10	1
	Date Extracted:	4/9/99	4/9/99	4/9/99	4/9/99
	Date Analyzed:	4/9/99	4/9/99	4/9/99	4/9/99
	Sample Name:				Method
Analytes	MRL	605-SB1-4'	605-SB2-4'	880-SB1-4'	Blank
Naphthalene	1	U	U	U	U
2-Methylnaphthalene	1	U	U	19.7	U
1-Methylnaphthalene	1	U	U	65.6	U
Acenaphthylene	1	U	U	12.6	U
Acenaphthene	1	U	U	16.7	U
Fluorene	1	U	U	146	U
Phenanthrene	1	U	U	204	U
Anthracene	1	U	U	13.3	U
Fluoranthene	1	U	U	U	U
Pyrene	1	U	U	U	U
Benzo(a)anthracene	0.2	U	U	U	U
Chrysene	1	U	U	U	U
Benzo(b)fluoranthene	0.5	U	U	U	U
Benzo(k)Fluoranthene	0.5	U	U	U	U
Benzo(a)pyrene	0.2	U	U	U	U
Indeno-1,2,3(cd)pyrene	0.2	U	U	U	U
Dibenzo(ah)anthracene	0.2	U	U	U	U
Benzo(ghi)perylene	1	U	U	U	U

Surrogate	Acceptance Limits	Percent Recovery	Percent Recovery	Percent Recovery	Percent Recovery
2-Fluorobiphenyl	43-130	130	90	99	44

U Not detected above the MRL

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: CH2M Hill Constructors, Inc.
Project No.: CTO No. 2 Former UST Sites
Matrix: Soil

Report No.: J990657
Date Sampled: 4/6/99
Date Submitted: 4/8/99
Date Reported: 4/20/99

SPLP Florida Petroleum Residual Organics
EPA Methods 1312/3510/FL-PRO
Units: µg/L

	Lab Code:	990657-1	990657-2	990657-3	990657-mb
	Dilution Factor:	1	1	5	1
	Date Extracted:	4/13/99	4/13/99	4/13/99	4/8/99
	Date Analyzed:	4/16/99	4/16/99	4/16/99	4/16/99
	Sample Name:				Method
Analytes	MRL	605-SB1-4'	605-SB2-4'	880-SB1-4'	Blank
Octane (C_8)	10	U	U	U	U
Decane (C_{10})	10	U	U	U	U
Dodecane (C_{12})	10	U	U	93.5	U
Tetradecane (C_{14})	10	U	U	451	U
Hexadecane (C_{16})	10	U	U	402	U
Octadecane (C_{18})	10	U	U	397	U
Eicosane(C_{20})	10	U	U	64.0	U
Docosane (C_{22})	10	U	U	205	U
Tetracosane (C_{24})	10	U	U	109	U
Hexacosane (C_{26})	10	U	U	U	U
Octacosane (C_{28})	10	U	U	U	U
Triacosane (C_{30})	10	U	U	U	U
Dotriacontane (C_{32})	10	U	U	U	U
Tetratriacontane (C_{34})	10	U	U	U	U
Hexatriacotane (C_{36})	10	U	U	U	U
Octatriacotane (C_{38})	10	U	U	U	U
Tetracotane (C_{40})	10	U	U	U	U
TOTAL PHS	200	U	U	1421	U

Surrogate	Acceptance Limits	Percent Recovery	Percent Recovery	Percent Recovery	Percent Recovery
Ortho-terphenyl	42-142	92	74	64	94

U Not detected above the MRL