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NAS CECIL FIELD, FL
5090.3a

UNDERGROUND STORAGE TANK CLOSURE REPORT FOR UNDERGROUND STORAGE TANK REMOVAL AT BUILDING 141 TANK G141LS NAS CECIL FIELD FL

4/1/2001

CH2MHILL CONSTRUCTORS INC

UST Closure Report

Underground Storage Tank Removal at Building 141 Tank Number G141LS

Naval Air Station Cecil Field Jacksonville, Florida

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

Submitted to

U.S. Naval Facilities Engineering Command

Prepared by

CH2MHILL Constructors, Inc.

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Atlanta, GA 30346

April 2001

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UST Closure Report

Underground Storage Tank Removal at Building 141
Tank Number G141LS

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Jacksonville, Florida

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Contract Task Order No. 0002

Prepared by

115 Perimeter Center Place, N.E.
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Atlanta, GA 30346

April 2001

Prepared/Approved By:

Samuel M. Ross, Project Manager — Date

Approved By:

R. Scott Newman, Program Manager — Date

Client Acceptance:

U.S. Navy Responsible Authority — Date

CERTIFICATION OF TECHNICAL DATA CONFORMITY (April 2001)

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 is complete and accurate and complies with all requirements of this contract.

DATE:_____

NAME AND TITLE OF CERTIFYING OFFICIAL: _____

Samuel M. Ross
Project Manager

CH2MHILL
Constructors, Inc.

Certificate of Completion

CH2M HILL Constructors, Inc., attests that, to the best of its knowledge and belief, the removal of underground storage tank (G141LS) at Building 141, delivered under Contract No. N62467-98-D-0995, Naval Air Station Cecil Field, Jacksonville, Florida, Contract Task Order (CTO) No. 0002, has been completed, inspected, and tested, and is in compliance with the contract.

_____ _____

Project QC Manager Date

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Acronyms

ABB	ABB Environmental Services, Inc.
bls	below land surface
BTEX	benzene, toluene, ethylbenzene, and xylene
CCI	CH2M HILL Constructors Inc.
CTO	Contract Task Order
EPA	U.S. Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FID	flame ionization detector
GCTLs	groundwater cleanup target levels
KAG	Kerosene Analytical Group
mg/kg	milligrams per kilogram
µg/L	micrograms per liter
MTBE	methyl tributyl ethylene
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
NTFF	North Tank Fuel Farm
OVA	Organic Vapor Analyzer
PAHs	polynuclear aromatic hydrocarbons
PID	photoionization detector
PPM	parts per million
PVC	polyvinyl chloride
SCTLs	soil cleanup target levels
TOC	top of casing
TRPH	total recoverable petroleum hydrocarbons
UST	underground storage tank
VOCs	volatile organic compounds

UST Removal Report Requirements – *CHECKLIST*

Per FAC 62-770.300(3) the UST Removal Report shall contain the following information in detail, as applicable:

Site Name: Building 141 Lift Station **Date(s) of Activities: UST # G141LS 08/02/00**

Required Information	Response
1. Volume of product that was discharged, if known	*Not Applicable*
2. Volume of free product and the volume of groundwater recovered	*Not Applicable*
3. Volume of contaminated soil excavated and treated or properly disposed	*Not Applicable – No contaminated soils encountered*
4. Disposal or recycling methods for free product and contaminated soil	*Not Applicable*
5. Disposal methods for other contaminated media	*Approximately 100 gallons residual liquids and washwater disposed of as non-hazardous petroleum contact water- treated and disposed of at IWS, Jacksonville, Florida (See Appendix B for manifests)*
6. Scaled site map (including a graphical representation of the scale used) showing location(s) of free product recovered and the area of soil removed or treated and the approximate locations of all samples taken	*See Figures 1-2 and 2-1.*
7. Table summarizing free product thickness in each monitoring well or piezometer and the dates the measurements were made	*No free product was observed in monitoring wells.*
8. Type of field screening instrument or method used	*Foxboro 128 OVA/FID*
9. Dimensions of the excavation(s) and location(s), integrity, capacities and last known contents of storage tanks, integral piping, dispensers, or appurtenances removed	*Excavation area: 13 feet long x 8 feet wide x 7 feet maximum depth. 1-1,000-gallon UST (containing Diesel Fuel for emergency generator) and associated piping removed. Tank dimensions: 12 feet x 3.9 feet diameter*
10. Dimensions of the excavation(s) and location(s) and capacities of replacement underground storage tanks	*Not Applicable. No replacement UST installed*
11. Table indicating the identification, depth and field soil screening results of each sample collected	*See Table 2-2*
12. Depth to groundwater at the time of each excavation, measurement locations and method used to obtain that information	*Depth to groundwater measured in temporary well (TW-141) by measuring depth to water (feet, TOC) using electronic water level indicator (See Section 2.2.1). Depth to water = 8.2 feet bls*
13. Type of petroleum or petroleum products stored	*Diesel Fuel*

Required Information	Response
14. Documentation confirming the proper treatment or proper disposal of the free product or contaminated soil, including disposal manifests for free product, a copy of the treatment or acceptance of the contaminated soil and results of analyses, if performed	*Not Applicable. No free product or contaminated soils encountered during UST removal.*
15. For land farmed soil, a copy of the pre-treatment and post-treatment analytical results	*Not Applicable.*

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI) was contracted by the Southern Division Naval Facilities Engineering Command (NAVFAC) to perform the removal of one 1,000-gallon capacity underground storage tank (UST) from Building 141 Lift Station (Tank #G141LS) at former Naval Air Station (NAS) Cecil Field in Jacksonville, Duval County, Florida (refer to Figure 1-1, Site Location Map). This task included organic vapor analyzer (OVA) soil screening, confirmatory soil and groundwater sample collection during the UST activities, and preparation of documentation of the field activities. The closure assessment activities were conducted in accordance with the requirements of Chapter 62-761, Florida Administrative Code (FAC), and Florida Department of Environmental Protection (FDEP) guidance documents "Storage Tank System Closure Assessment Requirements"(April, 1998), and "Quality Assurance Standard Operating Procedures for Petroleum Storage System Closure Requirements."

The scope of services for the UST Closure at Building 141 is described in detail in the NAS Cecil Field Basewide Work Plan, Revision 01 (CCI, 1998a) and the Work Plan Addendum No. 5, Removal of the North Tank Fuel Farm and Removals at Various Tank Sites (CCI, 2000). This work was authorized under the Remedial Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0002.

1.1 Site Background

Tank G141LS is a 1,000-gallon capacity diesel fuel UST that had been used to provide diesel fuel for an emergency generator located within Building 141 Lift Station. It was reported that the tank had been installed in 1981. A Confirmatory Sampling Report, prepared by ABB Environmental Services, Inc. (ABB), dated November 1997, revealed no indications of the presence of soil or groundwater contamination at the site at that time. A site plan showing the site conditions prior to the UST removal is presented in Figure 1-2.

1.2 Project Objectives and Summary

The primary objectives of this project were to remove the UST system, thereby removing a potential source of subsurface contamination, and to conduct a closure assessment in conjunction with the UST removal to determine the presence or absence of soil and/or groundwater contamination at site relative to the UST system. FDEP allows the use of headspace analysis as a screening tool in evaluating whether soil samples exceed the SCTLs. Soils exhibiting an OVA concentration of greater than 10 parts per million (ppm) were considered to be contaminated and were expected to contain constituents exceeding soil cleanup target levels (SCTLs). The results of the OVA soil screening were below the 10 ppm target level in all soil samples collected. As part of the closure assessment one confirmatory soil sample was collected from the location selected as representative of the apparent worst case site conditions. This sample was analyzed for compounds in the Kerosene Analytical Group (KAG). The KAG analyses for soils include volatile organic compounds (VOCs) by

U.S. Environmental Protection Agency (EPA) Method 8021B, polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8310, and total recoverable petroleum hydrocarbons (TRPH) by the Florida Petroleum Residual Organic (FL-PRO) method. Following completion of the UST removal, the excavation was backfilled, and a temporary well point was installed in the location selected as representative of the apparent worst case site conditions. The temporary well point was purged and sampled. The sample was transported to an approved laboratory (Test America) and analyzed. The laboratory analysis of the groundwater sample included volatile organic compounds (VOCs) by EPA Method 8021B, and PAHs by EPA Method 8310 (KAG). The results of the laboratory analysis of the confirmatory soil and groundwater samples collected as part of the closure assessment, indicated no contaminant concentrations above SCTLs and Groundwater Cleanup Target Levels (GCTLs), as specified by Chapter 62-777 FAC.

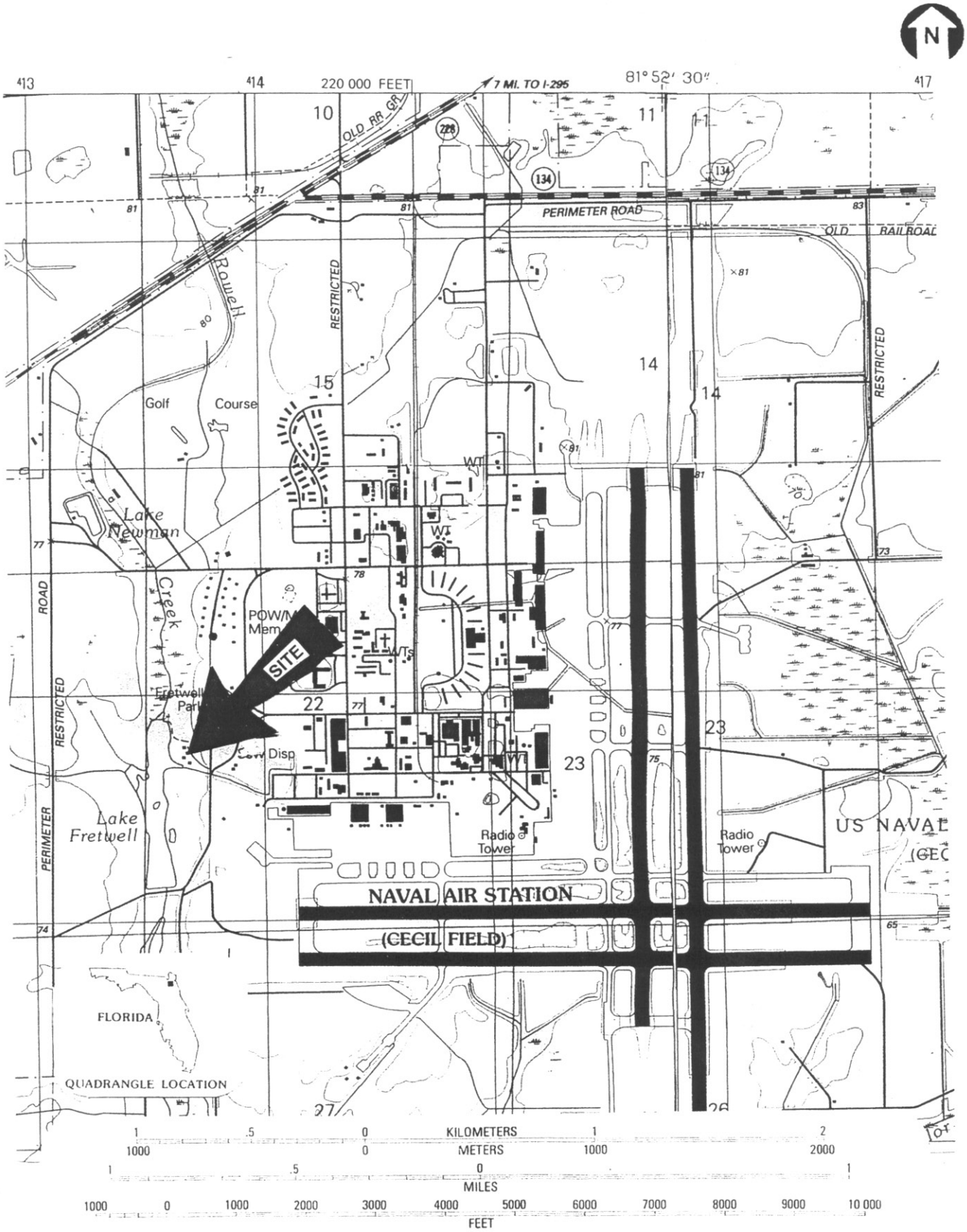

Figure 1-1
Site Location Map
Building 141
NAS Cecil Field
Jacksonville, Florida

CH2MHILL

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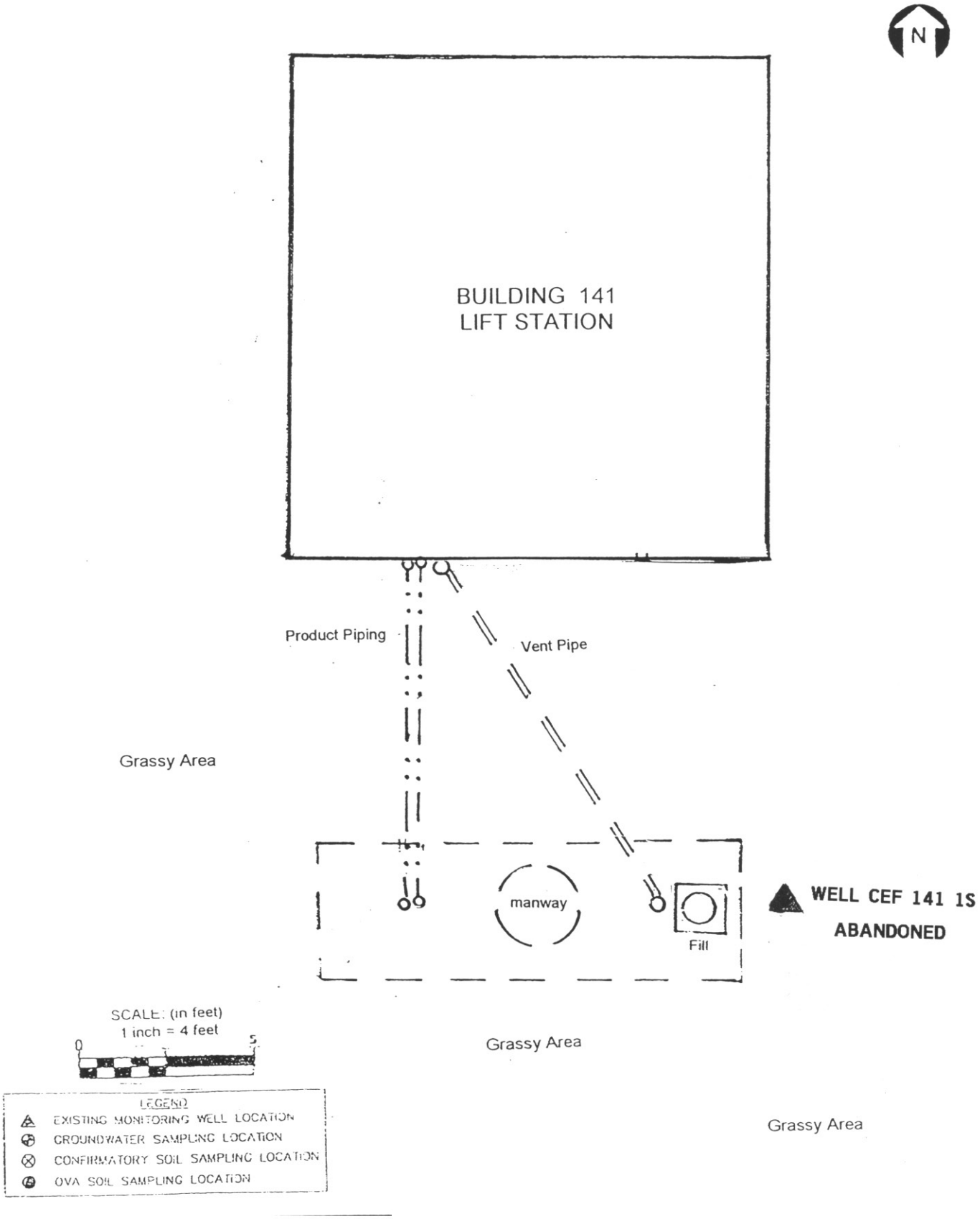

Figure 1-2
Pre-Excavation Conditions
Building 141
NAS Cecil Field
Jacksonville, Florida

2.0 UST Removal Activities

The UST closure activities were conducted at Building 141 on August 2, 2000. All soil samples collected for organic vapor analysis were below the 10 ppm target level, and no visual indications of soil contamination were noted. No free product was encountered during the tank removal activities. Following completion of the tank removal, one confirmatory soil sample and one groundwater sample was collected for laboratory analysis. Photo documentation of the field activities is presented in Appendix A.

2.1 Site Preparation

In preparation for excavation, underground utility locate services were contacted for underground utility locations within the proposed area of excavation. No active utilities were identified within the proposed area of excavation. A licensed well driller was used to abandon well CEF-141-1S prior to UST removal activities. The well log for that activity provided in Appendix H.

2.2 Tank Removal

One 1,000-gallon capacity steel UST, along with associated product piping and vent line, were removed from the site on August 2, 2000. The tank measured approximately 12 feet in length and 3.9 feet in diameter. Prior to initiating the tank removal activities, a visual inspection of the UST fill ports, vent pipes, and surrounding areas was conducted, and no visible evidence of contamination was observed. Residual liquids remaining in the tank were recovered from the UST by vacuum tanker, and the tank was inerted. The excavated UST appeared to be in generally good condition, with no holes or leaks observed. The empty tank was then rinsed, and the residual liquids (rinseate) were recovered for disposal by vacuum tanker. Associated product piping and the tank vent line were removed concurrently with the UST removal. Product piping consisted of single walled steel piping, which extended from the top of the tank to the north wall of Building 141, a distance of approximately 14.5 feet. Product lines were flushed and suctioned prior to removal.

Following removal of the tank from the ground, the empty tank carcass was rinsed using a pressure washer, the washwater was recovered for disposal using a vacuum tanker, and the tank was inerted and decommissioned prior to being disposed of off-site as scrap metal. Approximately 100 gallons of non-hazardous tank residue and rinseate generated by the field activities were containerized into a bulk holding tank along with residues from other diesel fuel tank removals being conducted as part of the project. These liquids were transported to Industrial Water Services of Jacksonville, Florida, for treatment/disposal. A copy of the manifest and certificate of disposal is provided in Appendix C and D, respectively.

2.3 Soil Excavation and Disposal

A closure assessment, which included visual inspection for the presence of stained or discolored soils during the tank removal activities, as well as OVA soil screening, collection

of confirmatory soil and groundwater samples from the tank pit, and documentation of the field activities, was conducted concurrently with the tank removal. The Closure Assessment was performed in accordance with the requirements of Chapter 62-761 FAC, the FDEP guidance document "Storage Tank System Closure Assessment Requirements"(April, 1998), and "Quality Assurance Procedures for Storage Tank Closure Assessments."

The presence or absence of soil contamination was determined during the UST removal using soil headspace analysis screening procedures as outlined in Chapter 62-770 FAC and in the FDEP "Guidelines for the Assessment and Remediation of Petroleum Contaminated Soils" as well as visual observation for the presence of staining or discoloration. Organic vapor analysis of the soil was performed in the field using a Foxboro Model 128 OVA/flame ionization detector (FID). The instrument was calibrated in the field prior to sample collection using a standard of 100 ppm methane.

Excavation was initiated by removing the soil overlying the top of the tank. Soil samples were collected continuously during excavation and screened for the presence of volatile petroleum hydrocarbon vapors using soil vapor headspace analysis techniques. In this procedure, two clean 16-ounce, widemouth glass jars were half-filled with the soil sample to be tested, the jars were then sealed with aluminum foil, and allowed to equilibrate at ambient temperatures for a period of 5 to 10 minutes. The organic vapor concentration in the headspace of each jar is then analyzed using the OVA/FID, with one sample being analyzed with a carbon filter, and the other analyzed without a carbon filter. This was done to detect and correct for the presence of naturally occurring organic vapors (i.e., methane). The corrected reading was reported in ppm, and represents the concentration of organic vapor from the soil sample resulting from the presence of volatile petroleum hydrocarbon compounds in the sample.

The delineation of contamination during soil excavation was performed by screening samples collected from the limits of the excavation and using OVA headspace analysis to determine presence of petroleum contamination in the soils surrounding the UST. In addition, soil borings were conducted, and soil samples were collected for OVA headspace analysis from below the product piping and vent line at the level of the piping (2.5 feet bls), and at a depth of one foot below the bottom of the piping (3.5 feet bls). The results of the OVA soil screening were below 10 ppm in all samples collected. The results of the OVA soil screening are summarized in Table 2-1, and OVA soil sampling locations are shown on Figure 2-1.

2.3.1 Soil Excavation

Soil excavation required to facilitate the removal of the tank was performed using a rubber-tire backhoe. Based on the results of the OVA soil screening analysis, which were all below the target level of 10 ppm, and on the lack of visual indications of contamination, those soils were returned to the excavation and clean fill was used to restore the excavation to original grade. Groundwater was not encountered during the tank removal activities. The final excavation area was approximately 13 feet long, 8 feet wide, and was a maximum depth of 7 feet deep (beneath the former UST location). The highest OVA readings were from those soils samples collected adjacent to the UST manway, at the top, center of the tank.

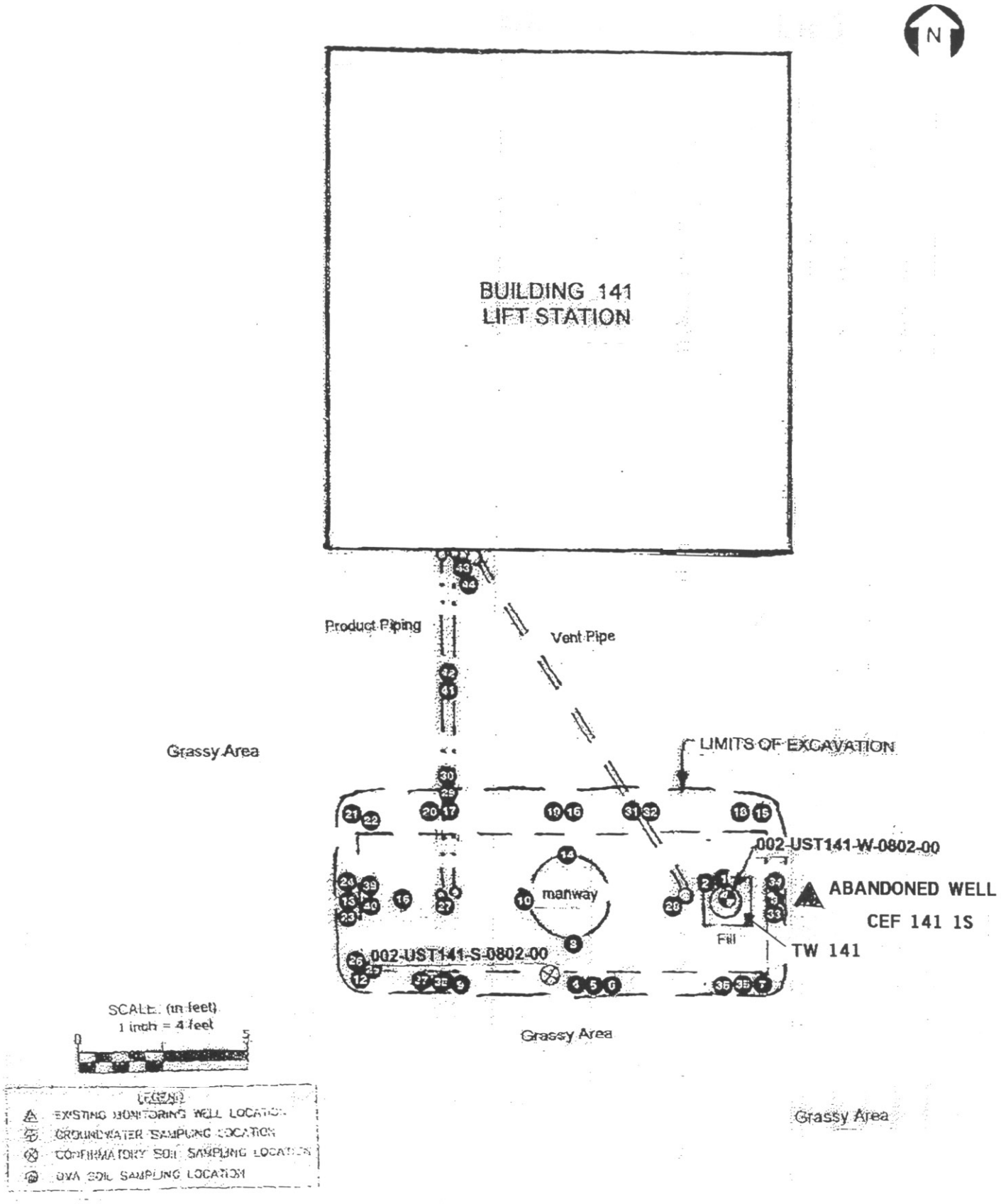

Figure 2-1
Soil and Groundwater Sampling Locations
Building 141
NAS Cecil Field
Jacksonville, Florida

TABLE 2-1
Summary of Headspace Screening Results

Sample Location (see Figure 2-1)	Depth (feet bls)	FID Unfiltered (ppm)	FID with Filter (ppm)	FID Corrected (ppm)
1	0.5	0	0	0
2	2.5	0	0	0
3	3.5	0	0	0
4	1.0	0	0	0
5	3.0	0	0	0
6	5.0	2.2	0	2.2
7	4.0	0	0	0
8	3.5	8.5	0	8.5
9	3.0	1.6	0	1.6
10	3.5	6.8	0	6.8
11	3.5	7.7	0	07.7
12	7.0	0.2	0	0.2
13	3.5	1.8	0	1.8
14	3.5	4.9	0	4.9
15	1.0	0	0	0
16	1.0	0	0	0
17	1.0	0	0	0
18	3.0	0.4	0	0.4
19	3.0	1.0	0	1.0
20	3.0	0.2	0	0.2
21	1.0	0	0	0
22	3.0	0	0	0
23	1.0	0	0	0
24	3.0	1.1	0	1.1
25	1.0	0	0	0
26	3.0	0	0	0
27	7.0	0.4	0	0.4
28	7.0	3.2	0	3.2
29	4.0	0	0	0
30	6.0	0	0	0
31	4.0	0	0	0
32	6.0	0	0	0
33	4.0	0	0	0
34	6.0	0	0	0
35	4.0	0	0	0
36	6.0	0	0	0
37	4.0	0.6	0	0.6
38	6.0	0	0	0
39	4.0	0	0	0
40	6.0	0	0	0
41	2.5	0	0	0
42	3.5	0	0	0
43	2.5	0	0	0
44	3.5	0	0	0

2.3.2 Soil Transportation and Disposal

The results of the OVA soil screening and visual inspection indicated a lack of apparent soil contamination. Soil excavation required to facilitate the removal of the UST was performed, and all excavated soils were returned to the excavation following the completion of the field activities.

2.3.3 Backfilling and Site Restoration

The material used to backfill the excavation was certified clean fill brought in from the North Tank Fuel Farm (NTFF) removal project at NAS Cecil Field. The certified clean soil used to backfill the Building 141 excavation was taken from NTFF Clean Pile 1. The laboratory analytical report for Clean Pile 1 showing that the material is clean is provided in Appendix D. The backfill was compacted using the excavation equipment. No compaction tests were required.

Following completion of the UST removal activities, the area of excavation was returned to original grade using the clean fill, compacted with construction equipment and seeded with a mixture of brown millet, rye, bahia grass and fertilized.

2.4 Confirmatory Sampling and Analysis

Soil samples collected from the limits of the excavation were screened in the field using organic headspace analysis procedures, and all samples were below the 10 ppm target level. Following completion of the soil excavation activities, one confirmatory soil sample and one groundwater sample were collected for laboratory analysis from the location selected as representative of the apparent worst case site conditions. The sampling locations are shown on Figure 2-1.

2.4.1 Headspace Analysis

Soil samples collected from the excavation were screened using an OVA equipped with an FID in accordance with the procedures outlined in Chapter 62-770.200(8) FAC. See Section 2.3 for screening methodology. A methane filter was used to subtract the methane concentration from the results. The results of the OVA soil screening indicated that all samples were below the target level of 10 ppm. The results of the headspace analyses are summarized in Table 2-1.

2.4.2 Laboratory Analysis of Soil Samples

Following completion of soil excavation activities, a confirmatory soil sample (Sample ID 002-UST141-S-0802-00) was collected from the area of the excavation selected as representative of the apparent worst case site conditions. Based on the results of the OVA soil screening, which were all below the target level of 10 ppm, and on the lack of visual indications of contamination, worst case location was found to be near the midpoint of the north wall of the excavation, at a depth of approximately 3.5 feet below surface grade, corresponding to the location of the highest OVA reading from the walls of the excavation.

The confirmatory soil sample was collected using stainless steel hand tools and Encore brand samplers. The sample was placed into pre-cleaned laboratory supplied sample containers, appropriately labeled, sealed in zip-lock type bags and placed on wet ice for

transport. The samples were delivered to an approved laboratory (Test America) for analysis by the following methods:

- EPA Method 8021B – benzene, toluene, ethylbenzene, and xylene (BTEX) and methyl tributyl ethylene (MTBE)
- EPA Method 8310 - PAHs
- FL-PRO - TPHs

The confirmatory soil sampling location is shown on Figure 2-1, and the summary of the results of the analytical data is summarized in Table 2-2. The results of the laboratory analysis indicate no contaminant concentrations above the applicable SCTLs for all KAG parameters. A copy of the analytical laboratory report for the confirmatory soil sample is provided in Appendix E.

2.4.3 Collection and Laboratory Analyses of Groundwater Samples

Following backfilling of the excavation with clean fill, a temporary well point was installed, and a groundwater sample was collected from the area of the excavation selected as representative of the apparent worst case site conditions. Based on the results of the OVA soil screening, which were all below the target level of 10 ppm, and on the lack of visual indications of contamination, worst case condition was found to be at the west end of the former UST location, beneath the fill port end of the tank.

The temporary well point was constructed of 2-inch diameter PVC with 5 feet of 0.010-inch slotted well screen, and clean filter sand was used to fill the annular space within the screened interval. The well point was installed such that the well screen intercepted the top of the water table, which was encountered at a depth of approximately 8.2 feet below surface grade. Prior to sample collection, the temporary well was purged a total of three standing volumes using a portable peristaltic pump. The purge water was collected and disposed of with the rinseate from the tank. The groundwater sample (Sample ID 002-UST141-W-0802-00) was then collected from the temporary well using a Teflon bailer. Sample containers, which had been provided by the designated laboratory, were appropriately labeled, preserved, sealed in zip-lock type bags, placed on wet ice, and delivered, under standard chain of custody procedures, to an approved laboratory (Test America) for analysis, as follows:

- EPA Method 8021B – BTEX and MTBE
- EPA Method 8310 - PAHs

The results of the laboratory analysis of the groundwater samples indicate no contaminant concentrations above the applicable GCTLs as specified in Chapter 62-777, FAC., Table I. The groundwater sampling location is shown on Figure 2-1, and the results of the laboratory analysis are summarized in Table 2-3. Copies of the analytical laboratory report are provided in Appendix F.

TABLE 2-2
Summary of Confirmatory Soil Analysis, Building 141, UST Closure (in mg/Kg)

Sample Location	Depth	Sample ID	Date	TRPH	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) Fluoranthene	Benzo (ghi) Perylene	Benzo (k) Fluoranthene	Chrysene	Dibenzo (ah) Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) Pyrene	Phenanthrene	Pyrene	Naphthalene	1- Methylnaphthalene	2- Methylnaphthalene	Benzene	Ethylbenzene	Toluene	Xylenes	MTBE
UST E Excavation, North Wall	3.0'	002-UST141-S-0802-00	8/02/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FDEP SCTLs*				340	2.1	27	2500	1.4	0.1	1.4	2300	15	77	0.1	1200	160	1.5	250	880	1.7	2.2	6.1	0.007	0.6	0.5	0.2	0.2

Note: ND = Not Detected Please see Appendix E for detection limits
*SCTLs as specified in Chapter 62-777 FAC., Lower of A) Direct Exposure – Residential; B) Direct Exposure – Industrial; or C) Leachability (based on groundwater criteria) concentrations.
Values reported in milligrams per kilogram (mg/kg).

TABLE 2-3
Summary of Groundwater Analysis

Sample Location	Sample ID	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) Fluoranthene	Benzo (ghi) Perylene	Benzo (k) Fluoranthene	Chrysene	Dibenzo (ah) Anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) Pyrene	Phenanthrene	Pyrene	Naphthalene	1- Methylnaphthalene	2- Methylnaphthalene	Benzene	Ethylbenzene	Toluene	Xylenes	MTBE
UST Excavation	002-UST141-W-0802-00	8/02/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FDEP Groundwater Criteria			20	210	2100	0.2	0.2	0.2	210	0.5	4.8	0.2	280	280	0.2	210	210	20	20	20	1	30	40	20	50
Natural Attenuation Default Source			200	2100	21000	20	20	20	2100	50	48	20	2800	2800	20	2100	2100	200	200	200	100	300	200	200	500

Note: ND = Not Detected. Please see Appendix F for detection limits.
Values reported in micrograms per liter (µg/L).

3.0 Conclusions

The removal of UST G141LS from Building 141 Lift Station was conducted on August 2, 2000. Prior to initiating the tank removal activities, a visual inspection of the area around the UST was conducted, and no visible evidence of contamination was observed. Residual liquids remaining in the UST, and washwater generated by the field activities, were recovered by vacuum tanker and have been transported to a permitted facility for treatment/disposal. Integral piping (product lines and vent pipe) was removed concurrently with the removal of the UST. The excavated UST appeared to be in generally good condition. The results of the OVA soil screening were below the target level of 10 ppm in all samples, and no visual indications of contamination were observed. Soils excavated to facilitate the removal of the UST were returned to the excavation, and clean fill was used to restore the excavation to the original grade. The excavated UST and associated piping were decontaminated and disposed of offsite.

The results of laboratory analysis of a confirmatory soil sample collected from the limits of the excavation in the apparent worst case location following completion of the soil excavation activities were below applicable SCTLs. In addition, the results of the laboratory analysis of a groundwater sample collected from a temporary well point installed in the apparent worst case location revealed no indication of the presence of petroleum contamination at laboratory detection limits below the applicable GCTLs, as specified in Chapter 62-777, FAC, Table I.

Based on the results of the laboratory analysis of soil and groundwater samples collected following the tank closure at Building 141, it appears that the applicable soil and groundwater cleanup target levels have been achieved, and no further action appears warranted at this time.

4.0 References

ABB Environmental Services, Inc. Confirmatory Sampling Report, Building 141, Tank G141LS, Base Realignment and Closure, Underground Storage Tank and Aboveground Storage Tank Grey Sites, NAS Cecil Field, Jacksonville, Florida. November, 1997.

CH2M HILL Constructors, Inc. Basewide Work Plan Revision 1, NAS Cecil Field, Jacksonville, Florida. November 1998.

CH2M HILL Constructors, Inc. Work Plan Addendum Number 5, Removal of North Fuel Tank Farm and Removals at Various Tank Sites, NAS Cecil Field, Jacksonville, Florida. , May 2000.

Appendix A

Photo Documentation

1. Photograph facing generally south, overlooking Building 141 UST area prior to start of field activities.

2. Photograph facing generally east, overlooking Building 141 UST area prior to start of field activities.

Photodocumentation: Source Removal/UST Closure; Building 141, UST #G141LS
Cecil Field Naval Air Station; Facility ID # 16/8507293
Jacksonville, Duval County, Florida

3. Photograph documenting removal of Tank #G141LS.

4. Photograph facing generally east, overlooking excavation following UST removal.

Photodocumentation: Source Removal/UST Closure; Building 141, UST #G141LS
Cecil Field Naval Air Station; Facility ID # 16/8507293
Jacksonville, Duval County, Florida

Appendix B

Disposal Documentation

- **Oily Wastewater Disposal Manifests**
- **Waste Characterization Analysis**

156500

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	3073700
N/A			

3. Generator's Name and Mailing Address
[redacted] NAS Cecil Field
[redacted]
4. Generator's Phone ([redacted]) [redacted]-8850

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
[redacted] INC	FLD092718576	(800)359-[redacted]

7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
INDUSTRIAL WATER SERVICES, INC 1640 FALLEYRAND AVENUE JACKSONVILLE, FL 32206	FLD981928484	(904)354-0372

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON - HAZARDOUS OILY WASTE WATER	001	TT ~~DM~~	2000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
IWS MPA J020473
CONTENTS FROM BUILDING #15,141,231,872,190

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CONTACT: Services, Inc. -- 24 Hour Emergency Service -- (800)-999-1234
ERI JOB # 2316

16. 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
DAVID J. KRUZICKI, ENV MGR	[signature]	10	03	00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
ERIC TOSWELL	[signature]	10	04	00

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. 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
Jeff [illegible]	[signature]	10	4	00

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL - RETURN TO GENERATOR

TESTAMERICA
INCORPORATED

Sample Identification

002-KAG2-L-0823-00

Matrix: Soil
% Dry Weight:
Units: ug/kg
Dilution Factor: 10000
Analysis Method: SW8260B
Delivery Group: 205320
Instrument: HP-18

Lab Sample ID: 00-A120434
Date Sampled: 8/23/00
Date Received: 8/25/00
Analysis Date: 9/ 1/00
Analysis Time: 14:11
Sample QC Group: 4097

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	500000	U
71-43-2	Benzene	20000	U
108-86-1	Bromobenzene	20000	U
74-97-5	Bromochloromethane	20000	U
75-25-2	Bromoform	20000	U
74-83-9	Bromomethane	20000	U
78-93-3	2-Butanone	500000	U
104-51-8	n-Butylbenzene	20000	U
135-98-8	sec-Butylbenzene	181000	
98-06-6	t-Butylbenzene	20000	U
75-15-0	Carbon disulfide	20000	U
56-23-5	Carbon tetrachloride	20000	U
108-90-7	Chlorobenzene	20000	U
75-00-3	Chloroethane	20000	U
110-75-8	2-Chloroethylvinylether	20000	U
67-66-3	Chloroform	20000	U
74-87-3	Chloromethane	20000	U
95-49-8	2-Chlorotoluene	20000	U
106-43-4	4-Chlorotoluene	20000	U
96-12-8	1,2-Dibromo-3-chloropropane	100000	U
124-48-1	Dibromochloromethane	20000	U
106-93-4	1,2-Dibromoethane	20000	U
74-95-3	Dibromomethane	20000	U
95-50-1	1,2-Dichlorobenzene	20000	U
541-73-1	1,3-Dichlorobenzene	20000	U
106-46-7	1,4-Dichlorobenzene	20000	U
75-71-8	Dichlorodifluoromethane	20000	U
75-34-3	1,1-Dichloroethane	20000	U
107-06-2	1,2-Dichloroethane	20000	U
75-35-4	1,1-Dichloroethene	20000	U

TestAmerica
INCORPORATED

Sample Identification

002-KAG2-L-0823-00

Matrix: Soil
% Dry Weight:
Units: ug/kg

Lab Sample ID: 00-A120434
Date Sampled: 8/23/00
Date Received: 8/25/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
156-59-2	cis-1,2-Dichloroethene	20000	U
156-60-5	trans-1,2-Dichloroethene	20000	U
78-87-5	1,2-Dichloropropane	20000	U
142-28-9	1,3-Dichloropropane	20000	U
594-20-7	2,2-Dichloropropane	20000	U
563-58-6	1,1-Dichloropropene	20000	U
10061-01-5	cis-1,3-Dichloropropene	20000	U
10061-02-6	trans-1,3-Dichloropropene	20000	U
100-41-4	Ethylbenzene	182000	
87-68-3	Hexachlorobutadiene	20000	U
591-78-6	2-Hexanone	100000	U
98-82-8	Isopropylbenzene	98000	
99-87-6	4-Isopropyltoluene	161000	
108-10-1	4-Methyl-2-pentanone	100000	U
75-09-2	Methylene chloride	50000	U
91-20-3	Naphthalene	726000	
103-65-1	n-Propylbenzene	215000	
100-42-5	Styrene	20000	U
630-20-6	1,1,1,2-Tetrachloroethane	20000	U
79-34-5	1,1,2,2-Tetrachloroethane	20000	U
127-18-4	Tetrachloroethene	20000	U
108-88-3	Toluene	165000	
87-61-6	1,2,3-Trichlorobenzene	20000	U
120-82-1	1,2,4-Trichlorobenzene	20000	U
71-55-6	1,1,1-Trichloroethane	20000	U
79-00-5	1,1,2-Trichloroethane	20000	U
79-01-6	Trichloroethene	20000	U
96-18-4	1,2,3-Trichloropropane	20000	U
95-63-6	1,2,4-Trimethylbenzene	1620000	
108-67-8	1,3,5-Trimethylbenzene	460000	
75-01-4	Vinyl chloride	20000	U
1330-20-7	Xylenes, Total	1200000	
75-27-4	Bromodichloromethane	20000	U
75-69-4	Trichlorofluoromethane	20000	U

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TestAmerica
INCORPORATED

Sample Identification

002-KAG2-L-0823-00

Matrix: Soil
% Dry Weight:
Units: ug/kg
Dilution Factor: 10.
Analysis Method: SW8270C
Delivery Group: 205320
Instrument: HP-9
Grams Extracted: 1.00 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A120434
Date Sampled: 8/23/00
Date Received: 8/25/00
Analysis Date: 9/10/00
Analysis Time: 22:37
Sample QC Group: 6169

Extraction Date: 8/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
83-32-9	Acenaphthene	1000000	U
208-96-8	Acenaphthylene	1000000	U
120-12-7	Anthracene	1000000	U
56-55-3	Benzo(a)anthracene	1000000	U
50-32-8	Benzo(a)pyrene	1000000	U
205-99-2	Benzo(b)fluoranthene	1000000	U
191-24-2	Benzo(g,h,i)perylene	1000000	U
207-08-9	Benzo(k)fluoranthene	1000000	U
101-55-3	4-Bromophenylphenylether	1000000	U
85-68-7	Butylbenzylphthalate	1000000	U
86-74-8	Carbazole	1000000	U
59-50-7	4-Chloro-3-methylphenol	1000000	U
106-47-8	4-Chloroaniline	1000000	U
111-91-1	bis(2-Chloroethoxy)methane	1000000	U
111-44-4	bis(2-Chloroethyl)ether	1000000	U
39638-32-9	bis(2-Chloroisopropyl)ether	1000000	U
91-58-7	2-Chloronaphthalene	1000000	U
95-57-8	2-Chlorophenol	1000000	U
7005-72-3	4-Chlorophenylphenylether	1000000	U
218-01-9	Chrysene	1000000	U
132-64-9	Dibenzofuran	1000000	U
53-70-3	Dibenz(a,h)anthracene	1000000	U
95-50-1	1,2-Dichlorobenzene	1000000	U
541-73-1	1,3-Dichlorobenzene	1000000	U
106-46-7	1,4-Dichlorobenzene	1000000	U
91-94-1	3,3'-Dichlorobenzidine	1000000	U
120-83-2	2,4-Dichlorophenol	1000000	U
84-66-2	Diethylphthalate	1000000	U

TestAmerica
INCORPORATED

Sample Identification

002-KAG2-L-0823-00

Matrix: Soil
% Dry Weight:
Units: ug/kg

Lab Sample ID: 00-A120434
Date Sampled: 8/23/00
Date Received: 8/25/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
105-67-9	2,4-Dimethylphenol	1000000	U
131-11-3	Dimethylphthalate	1000000	U
84-74-2	Di-n-butylphthalate	1000000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000000	U
51-28-5	2,4-Dinitrophenol	1000000	U
121-14-2	2,4-dinitrotoluene	1000000	U
606-20-2	2,6-Dinitrotoluene	1000000	U
117-84-0	Di-n-octylphthalate	1000000	U
206-44-0	Fluoranthene	1000000	U
86-73-7	Fluorene	1000000	U
118-74-1	Hexachlorobenzene	1000000	U
87-68-3	Hexachlorobutadiene	1000000	U
77-47-4	Hexachlorocyclopentadiene	1000000	U
67-72-1	Hexachloroethane	1000000	U
193-39-5	Indeno(1,2,3-cd)pyrene	1000000	U
78-59-1	Isophorone	1000000	U
91-57-6	2-Methylnaphthalene	3900000	
95-48-7	2-Methylphenol	1000000	U
106-44-5	m,p-Methylphenol	1000000	U
91-20-3	Naphthalene	1200000	
88-74-4	2-Nitroaniline	1000000	U
99-09-2	3-Nitroaniline	1000000	U
100-01-6	4-Nitroaniline	1000000	U
98-95-3	Nitrobenzene	1000000	U
88-75-5	2-Nitrophenol	1000000	U
100-02-7	4-Nitrophenol	1000000	U
621-64-7	N-nitrosodi-n-propylamine	1000000	U
86-30-6	N-nitrosodiphenylamine	1000000	U
87-86-5	Pentachlorophenol	1000000	U
85-01-8	Phenanthrene	700000	J
108-95-2	Phenol	1000000	U
129-00-0	Pyrene	1000000	U
117-81-7	Bis(2-ethylhexyl)phthalate	1000000	U
120-82-1	1,2,4-Trichlorobenzene	1000000	U

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TESTAMERICA
INCORPORATED

Sample Identification

002-KAG2-L-0823-00

Matrix: Soil
% Dry Weight:
Units: ug/kg

Lab Sample ID: 00-A120434
Date Sampled: 8/23/00
Date Received: 8/25/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
95-95-4	2,4,5-Trichlorophenol	1000000	U
88-06-2	2,4,6-Trichlorophenol	1000000	U

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TESTAMERICA
INCORPORATED

Sample Identification

002-KAG2-L-0823-00

Matrix: Soil
% Dry Weight:
Units: ug/kg
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 205320
Instrument: TREM-1
Grams Extracted: 1.00 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A120434
Date Sampled: 8/23/00
Date Received: 8/25/00
Analysis Date: 9/ 1/00
Analysis Time: 3:11
Sample QC Group: 6239

Extraction Date: 8/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	50	U
319-84-6	a-BHC	50	U
319-85-7	b-BHC	50	U
319-86-8	d-BHC	50	U
58-89-9	g-BHC, Lindane	50	U
72-54-8	4,4'-DDD	100	U
72-55-9	4,4'-DDE	100	U
50-29-3	4,4'DDT	100	U
60-57-1	Dieldrin	100	U
959-98-8	Endosulfan I	50	U
33213-65-9	Endosulfan II	100	U
1031-07-8	Endosulfan sulfate	100	U
72-20-8	Endrin	100	U
7421-93-4	Endrin aldehyde	100	U
53494-70-5	Endrin Ketone	100	U
76-44-8	Heptachlor	50	U
1024-57-3	Heptachlor epoxide	50	U
72-43-5	Methoxychlor	500	U
8001-35-2	Toxaphene	5000	U
5103-71-9	alpha-Chlordane	50	U
5103-74-2	gamma-Chlordane	50	U

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INCORPORATED

Sample Identification

002-KAG2-L-0823-00

Matrix: Soil
% Dry Weight:
Units: ug/kg
Dilution Factor: 1.
Analysis Method: SW8082
Delivery Group: 205320
Instrument:
Grams Extracted: 1.1 g
Extract Vol: 10.0 ml
Grams Extracted: ~~g~~
Extract Vol: ~~ml~~ KC

Lab Sample ID: 00-A120434
Date Sampled: 8/23/00
Date Received: 8/25/00
Analysis Date: 9/ 1/00
Analysis Time: 18:01
Sample QC Group: 7025

Extraction Date: 8/29/00

Extraction Date: ~~8/28/00~~ KC

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
12674-11-2	Aroclor 1016	546	U
11104-28-2	Aroclor 1221	546	U
11141-16-5	Aroclor 1232	546	U
53469-21-9	Aroclor 1242	546	U
12672-29-6	Aroclor 1248	546	U
11097-69-1	Aroclor 1254	546	U
11096-82-5	Aroclor 1260	546	U

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Sample Identification

002-KAG2-L-0823-00

Matrix: Soil
% Dry Weight:
Units: ug/kg
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 205320
Instrument: SHIMADZU-3
Grams Extracted: 5. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A120434
Date Sampled: 8/23/00
Date Received: 8/25/00
Analysis Date: 9/ 3/00
Analysis Time: 7:57
Sample QC Group: 106

Extraction Date: 8/29/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	1000	U
93-76-5	2,4,5-T	100	U
93-72-1	2,4,5-TP (Silvex)	100	U
75-99-0	Dalapon	2000	U
94-82-6	2,4-DB	1000	U
1918-00-9	Dicamba	100	U
120-36-5	Dichloroprop	1000	U
88-85-7	Dinoseb	500	U
94-74-6	MCPA	100000	U
7085-19-0	MCPP	100000	U
87-86-5	Pentachlorophenol	100	U
100-02-7	4-Nitrophenol	100	U

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TestAmerica
INCORPORATED

Sample Identification

002-KAG2-L-0823-00

Matrix: Soil
% Dry Weight:
Units: ug/kg
Dilution Factor: 200.
Analysis Method: FPRO
Delivery Group: 205320
Instrument: PE-3
Grams Extracted: 1. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A120434
Date Sampled: 8/23/00
Date Received: 8/25/00
Analysis Date: 8/30/00
Analysis Time: 12:16
Sample QC Group: 6961

Extraction Date: 8/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
	TRPH	1080000000	

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CHAIN-OF-CUSTODY RECORD

205300 6580

149152-47 page 2 of 2

Hill Co... Inc.

NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No., and Fax No.)
Field	149152	Test America, Nashville, TN Nancy Reed	Jay-Daniel, Environmental Recovery, Inc.	251 Levy Road, Atlantic Beach, FL 322233 phone (904-241-2200 fax 904-241-4732
Tank Removals			FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No., and Fax No.)
PHASE SITE TASK	CTO OR DO NUMBER	LAB PO NUMBER	Bill Canelos, CCI/JAJES	6219 Authority Road, Jacksonville, FL 32221 phone (904-777-4812 fax 904-777-4262
Waste Characterization - Diesel Rinsate	0002		FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.)
CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO		
nelos	phone (904) 777-4812 fax 904-777-4262	phone (800) 765-0980		

ANALYSES REQUIRED (Include Method Numbers)

SAMPLE IDENTIFIER	SAMPLE DESCRIPTION LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	BTEX 8260	TCL Volatile 8260	TCL Semi-Volatile 8270	Metals TAL Metals	BTEX TCL Pesticides	PCB's	EL-PBO	TAL metals	Cyanide	Flashpoint	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS
002-KAG2-L-0823-00	Waste characterization Diesel Rinsate	Oil Liquid	8/23/00	11:50	C	14	X	X	X	X	X	X	X	X	X	X	Composite	Diesel Fuel/water mixture

Sample Kit:
5 x 1000 ml Glass UNP
1 x 1000 ml Glass H_2SO_4 (pH<2)
1 x 500 ml poly HNO_3 (metals)
1 x 500 ml poly NaOH (cyanide)

Sample containers se... ziplock type bags ... placed on wet ice ... for Transport (...

Samples HAND-DELIVE... to Intralab, Inc. ...

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT

ER(S) AND COMPANY (please print)
rd Moriarity, Environmental Science Associates, Inc.

COURIER AND SHIPPING NUMBER

RELINQUISHED BY Name and Signature	DATE	TIME	RECEIVED BY Printed Name and Signature	DATE
Richard Moriarity	8/23/00	17:00	[illegible]	8/23/00 17:...
			[illegible]	8/24/00 17:...

Appendix C

Certificate of Disposal

INDUSTRIAL WATER SERVICES

Industrial Water Services
1980 Avenue "A"
Mobile, Alabama 36615

Corporate Office:
1-800-447-3592
FAX (904) 350-1313

Industrial Water Services, Inc.
P.O. Box 43369
Jacksonville, Florida 32203

Facility:
1980 Avenue "A"
Mobile, Alabama 36615
(334) 694-7500
FAX: (334) 694-7508

Customer Service:
1-800-4-IWS-HAUL
800-449-7428

Facility:
1705 Danese Street
Jacksonville, Florida 32206
(904) 354-0372
FAX: (904) 354-7612

CERTIFICATE OF COMPLIANCE AND DISPOSAL

Generator: UNITED STATES NAVY – N.A.S. CECIL FIELD
Site Location: 6219 AUTHORITY AVENUE – JACKSONVILLE, FL

This certifies that on the 4th of October, 2000; 2,000 gallons of non-hazardous oily waste water as described on manifest number 156500, was disposed of and/or recycled in compliance with all applicable state, federal and local regulations under Industrial User Permit Number ISN 019.

Facility Name:	Industrial Water Services, Inc.
Facility Address:	1640 Talleyrand Avenue Jacksonville, FL
Facility EPA ID#:	FLD 981 928 484
Certified By:	Leslie Detlefsen
Signature:	Leslie Detlefsen
Date:	March 7, 2001

Appendix D

Analytical Laboratory for Clean Fill

Committed To Your Success

LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
07521-1	002-CPI-S-0724-00	07-24-00/15:15	002-CPI

PARAMETER	07521-1
Petroleum Hydrocarbons (FL-PRO)	
Petroleum Range Organics (FL-PRO), ug/kg dw	23000
Surrogate - o-Terphenyl	104 %
Surrogate - Nonatriacontane (C39)	105 %
Dilution Factor	1
Prep Date	07.25.00
Analysis Date	07.25.00
Batch ID	FLS080
Prep Method	3550
Analyst	HAH

Committed To Your Success

LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
07521-1	002-CPI-S-0724-00	07-24-00/15:15	002-CPI

PARAMETER	07521-1
Polynuclear Aromatic Hydrocarbons (8310)	
Acenaphthene, ug/kg dw	<11
Acenaphthylene, ug/kg dw	<11
Anthracene, ug/kg dw	<11
Benzo(a)anthracene, ug/kg dw	<11
Benzo(a)pyrene, ug/kg dw	22
Benzo(b)fluoranthene, ug/kg dw	86 T
Benzo(g,h,i)perylene, ug/kg dw	38 T
Benzo(k)fluoranthene, ug/kg dw	64 T
Chrysene, ug/kg dw	21
Dibenzo(a,h)anthracene, ug/kg dw	82
Fluoranthene, ug/kg dw	62 T
Fluorene, ug/kg dw	<11
Indeno(1,2,3-cd)pyrene, ug/kg dw	<11
Naphthalene, ug/kg dw	<11
Phenanthrene, ug/kg dw	<11
Pyrene, ug/kg dw	31
1-Methylnaphthalene, ug/kg dw	<11
2-Methylnaphthalene, ug/kg dw	<11
Surrogate - 2-Chloroanthracene	115 %
Dilution Factor	1
Prep Date	07.25.00
Analysis Date	07.25.00
Batch ID	PAS252
Prep Method	3550
Analyst	SB

STL
Committed To Your Success

LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
07521-1	002-CPI-S-0724-00	07-24-00/15:15	002-CPI

PARAMETER	07521-1
Volatile Organic Compounds (8260)	
Benzene, ug/kg dw	<5.6
Bromobenzene, ug/kg dw	<5.6
Bromochloromethane, ug/kg dw	<5.6
Bromodichloromethane, ug/kg dw	<5.6
Bromoform, ug/kg dw	<5.6
Bromomethane (Methyl bromide), ug/kg dw	<5.6
Carbon tetrachloride, ug/kg dw	<5.6
Chlorobenzene, ug/kg dw	<5.6
Chloroethane, ug/kg dw	<5.6
Chloroform, ug/kg dw	<5.6
Chloromethane, ug/kg dw	<5.6
2-Chlorotoluene, ug/kg dw	<5.6
4-Chlorotoluene, ug/kg dw	<5.6
Dibromochloromethane, ug/kg dw	<5.6
Dibromomethane (Methylene bromide), ug/kg dw	<5.6
1,2-Dibromoethane (EDB), ug/kg dw	<5.6
1,2-Dichlorobenzene, ug/kg dw	<5.6
1,3-Dichlorobenzene, ug/kg dw	<5.6
1,4-Dichlorobenzene, ug/kg dw	<5.6
Dichlorodifluoromethane, ug/kg dw	<5.6
1,1-Dichloroethane, ug/kg dw	<5.6
1,2-Dichloroethane, ug/kg dw	<5.6
1,1-Dichloroethene, ug/kg dw	<5.6
cis-1,2-Dichloroethene, ug/kg dw	<5.6
trans-1,2-Dichloroethene, ug/kg dw	<5.6

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LOG NO: C0-07521
Received: 25 JUL 00
Reported: 26 JUL 00

Mr. Bill Canelos
CCI/JA Jones Env. Svcs.
8936 Western Way, Suite 10
Jacksonville, FL 32256

CC: Lisa Schwan (CCI, Atlanta, GA)

Contract No.: CTO 002
Project: NTFF CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
07521-1	002-CPI-S-0724-00	07-24-00/15:15	002-CPI

PARAMETER	07521-1
1,2-Dichloropropane, ug/kg dw	<5.6
1,3-Dichloropropane, ug/kg dw	<5.6
2,2 Dichloropropane, ug/kg dw	<5.6
cis-1,3-Dichloropropene, ug/kg dw	<5.6
trans-1,3-Dichloropropene, ug/kg dw	<5.6
Ethylbenzene, ug/kg dw	<5.6
Hexachlorobutadiene, ug/kg dw	<5.6
Isopropylbenzene (Cumene), ug/kg dw	<5.6
p-Isopropyltoluene, ug/kg dw	<5.6
Methylene chloride (Dichloromethane), ug/kg dw	<5.6
Methyl t-butyl ether (MTBE), ug/kg dw	<5.6
Naphthalene, ug/kg dw	<5.6
n-Butylbenzene, ug/kg dw	<5.6
n-Propylbenzene , ug/kg dw	<5.6
sec-Butylbenzene, ug/kg dw	<5.6
Styrene, ug/kg dw	<5.6
t-Butylbenzene, ug/kg dw	<5.6
1,1,1,2-Tetrachloroethane, ug/kg dw	<5.6
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.6
Tetrachloroethene, ug/kg dw	<5.6
Toluene, ug/kg dw	<5.6
1,1,1-Trichloroethane, ug/kg dw	<5.6
1,1,2-Trichloroethane, ug/kg dw	<5.6
1,2,3-Trichlorobenzene, ug/kg dw	<5.6
1,2,4-Trichlorobenzene, ug/kg dw	<5.6
Trichloroethene, ug/kg dw	<5.6

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED	SDG#
07521-1	002-CPI-S-0724-00	07-24-00/15:15	002-CPI

PARAMETER	07521-1
Trichlorofluoromethane, ug/kg dw	<5.6
1,2,3-Trichloropropane, ug/kg dw	<5.6
1,2,4-Trimethylbenzene, ug/kg dw	<5.6
1,3,5-Trimethylbenzene, ug/kg dw	<5.6
Vinyl chloride, ug/kg dw	<5.6
o-Xylene, ug/kg dw	<5.6
m&p-Xylene, ug/kg dw	<11
Surrogate - Dibromofluoromethane	91 %
Surrogate - Toluene-d8	103 %
Surrogate - 4-Bromofluorobenzene	96 %
Dilution Factor	1
Prep Date	07.25.00
Analysis Date	07.25.00
Batch ID	KAS097
Prep Method	5035
Analyst	DWB
Percent Solids	88

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

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Sampled By: Client
Code: 172500726

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9	
Petroleum Hydrocarbons (FL-PRO)						
Petroleum Range Organics (FL-PRO), ug/kg dw	<2500	118075	104 %	63 - 153 %	153348	
Surrogate - o-Terphenyl	111 %	133	106 %	---	133	
Surrogate - Nonatriacontane (C39)	80 %	36.5	73 %	---		---
Prep Date	56.0					
Dilution Factor	1	1	1		07.25.00	07.25.0
Analysis Date	07.25.00	07.25.00	07.25.00	---	07.25.00	
Batch ID	FLS080	FLS080	FLS080	---	FLS080	
Prep Method	3550	3550	3550	---	3550	
Analyst	HAH	HAH	HAH	---	HAH	

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9
Polynuclear Aromatic Hydrocarbons (8310)					
Acenaphthene, ug/kg dw	<10	---	---	---	---
Acenaphthylene, ug/kg dw	<10	6.7	67 %	39 - 137 %	229
Anthracene, ug/kg dw	<10	---	---	---	---
Benzo(a)anthracene, ug/kg dw	<10	---	---	---	---
Benzo(a)pyrene, ug/kg dw	<10	---	---	---	---
Benzo(b)fluoranthene, ug/kg dw	<10	---	---	---	---
Benzo(g,h,i)perylene, ug/kg dw	<10	---	---	---	---
Benzo(k)fluoranthene, ug/kg dw	<10	10.6	106 %	68 - 124 %	382
Chrysene, ug/kg dw	<10	9.6	96 %	65 - 132 %	367
Dibenzo(a,h)anthracene, ug/kg dw	<10	---	---	---	---
Fluoranthene, ug/kg dw	<10	---	---	---	---
Fluorene, ug/kg dw	<10	---	---	---	---
Indeno(1,2,3-cd)pyrene, ug/kg dw	<10	---	---	---	---
Naphthalene, ug/kg dw	<10	---	---	---	---
Phenanthrene, ug/kg dw	<10	8.3	83 %	---	348
Pyrene, ug/kg dw	<10	9.7	97 %	59 - 127 %	351
1-Methylnaphthalene, ug/kg dw	<10	---	---	61 - 120 %	---
2-Methylnaphthalene, ug/kg dw	<10	---	---	---	---
Surrogate - 2-Chloroanthracene	75 %	95 %	95 %	---	103 %
Dilution Factor	1	1	1	---	1
Prep Date	07.25.00	07.25.00	07.25.00	---	07.25.00
Analysis Date	07.25.00	07.25.00	07.25.00	---	07.25.00
Batch ID	PAS252	PAS252	PAS252	---	PAS252
Prep Method	3550	3550	3550	---	3550
Analyst	SB	SB	SB	---	SB

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Sampled By: Client
Code: 172500726

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9
Volatile Organic Compounds (8260)					
Benzene, ug/kg dw	<5.0	48	96 %	50 - 150 %	55.7
Bromobenzene, ug/kg dw	<5.0	---	---	---	---
Bromochloromethane, ug/kg dw	<5.0	---	---	---	---
Bromodichloromethane, ug/kg dw	<5.0	---	---	---	---
Bromoform, ug/kg dw	<5.0	---	---	---	---
Bromomethane (Methyl bromide), ug/kg dw	<5.0	---	---	---	---
Carbon tetrachloride, ug/kg dw	<5.0	---	---	---	---
Chlorobenzene, ug/kg dw	<5.0	55	110 %	50 - 150 %	61.6
Chloroethane, ug/kg dw	<5.0	---	---	---	---
Chloroform, ug/kg dw	<5.0	---	---	---	---
Chloromethane, ug/kg dw	<5.0	---	---	---	---
2-Chlorotoluene, ug/kg dw	<5.0	---	---	---	---
4-Chlorotoluene, ug/kg dw	<5.0	---	---	---	---
Dibromochloromethane, ug/kg dw	<5.0	---	---	---	---
Dibromomethane (Methylene bromide), ug/kg dw	<5.0	---	---	---	---
1,2-Dibromoethane (EDB), ug/kg dw	<5.0	---	---	---	---
1,2-Dichlorobenzene, ug/kg dw	<5.0	---	---	---	---
1,3-Dichlorobenzene, ug/kg dw	<5.0	---	---	---	---
1,4-Dichlorobenzene, ug/kg dw	<5.0	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9
Dichlorodifluoromethane, ug/kg dw	<5.0	---	---	---	---
1,1-Dichloroethane, ug/kg dw	<5.0	---	---	---	---
1,2-Dichloroethane, ug/kg dw	<5.0	---	---	---	---
1,1-Dichloroethene, ug/kg dw	<5.0	45	90 %	50 - 150 %	52.8
cis-1,2-Dichloroethene, ug/kg dw	<5.0	---	---	---	---
trans-1,2-Dichloroethene, ug/kg dw	<5.0	---	---	---	---
1,2-Dichloropropane, ug/kg dw	<5.0	---	---	---	---
1,3-Dichloropropane, ug/kg dw	<5.0	---	---	---	---
2,2 Dichloropropane, ug/kg dw	<5.0	---	---	---	---
cis-1,3-Dichloropropene, ug/kg dw	<5.0	---	---	---	---
trans-1,3-Dichloropropene, ug/kg dw	<5.0	---	---	---	---
Ethylbenzene, ug/kg dw	<5.0	---	---	---	---
Hexachlorobutadiene, ug/kg dw	<5.0	---	---	---	---
Isopropylbenzene (Cumene), ug/kg dw	<5.0	---	---	---	---
p-Isopropyltoluene, ug/kg dw	<5.0	---	---	---	---
Methylene chloride (Dichloromethane), ug/kg dw	<5.0	---	---	---	---
Methyl t-butyl ether (MTBE), ug/kg dw	<5.0	---	---	---	---
Naphthalene, ug/kg dw	<5.0	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9
n-Butylbenzene, ug/kg dw	<5.0	---	---	---	---
n-Propylbenzene , ug/kg dw	<5.0	---	---	---	---
sec-Butylbenzene, ug/kg dw	<5.0	---	---	---	---
Styrene, ug/kg dw	<5.0	---	---	---	---
t-Butylbenzene, ug/kg dw	<5.0	---	---	---	---
1,1,1,2-Tetrachloroethane, ug/kg dw	<5.0	---	---	---	---
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.0	---	---	---	---
Tetrachloroethene, ug/kg dw	<5.0	---	---	---	---
Toluene, ug/kg dw	<5.0	58	116 %	50 - 150 %	60.7
1,1,1-Trichloroethane, ug/kg dw	<5.0	---	---	---	---
1,1,2-Trichloroethane, ug/kg dw	<5.0	---	---	---	---
1,2,3-Trichlorobenzene, ug/kg dw	<5.0	---	---	---	---
1,2,4-Trichlorobenzene, ug/kg dw	<5.0	---	---	---	---
Trichloroethene, ug/kg dw	<5.0	52	104 %	50 - 150 %	58.6
Trichlorofluoromethane, ug/kg dw	<5.0	---	---	---	---
1,2,3-Trichloropropane, ug/kg dw	<5.0	---	---	---	---
1,2,4-Trimethylbenzene, ug/kg dw	<5.0	---	---	---	---
1,3,5-Trimethylbenzene, ug/kg dw	<5.0	---	---	---	---
Vinyl chloride, ug/kg dw	<5.0	---	---	---	---
o-Xylene, ug/kg dw	<5.0	---	---	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-2	Method Blank	
07521-3	Lab Control Standard Result	
07521-5	Lab Control Standard % Recovery	
07521-22	LCS Accuracy Control Limit (%R)	
07521-9	Matrix Spike Result	

PARAMETER	07521-2	07521-3	07521-5	07521-22	07521-9
m&p-Xylene, ug/kg dw	<10	---	---	---	---
Surrogate - Dibromofluoromethane	88 %	89 %	89 %	---	93 %
Surrogate - Toluene-d8	100 %	103 %	103 %	---	100 %
Surrogate - 4-Bromofluorobenzene	104 %	103 %	103 %	---	100 %
Dilution Factor	1	1	1	---	1
Prep Date	---	---	---	---	07.25.00
Analysis Date	07.25.00	07.25.00	07.25.00	---	07.25.00
Batch ID	KAS097	KAS097	KAS097	---	KAS097
Prep Method	5030	5030	5030	---	5035
Analyst	DWB	DWB	DWB	---	DWB

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-10	Matrix Spike Duplicate Result	
07521-11	Matrix Spike % Recovery	
07521-12	Matrix Spike Duplicate % Recovery	
07521-13	Precision (%RPD) MS/MSD	
07521-14	MS Precision Advisory Limit (%RPD)	

PARAMETER	07521-10	07521-11	07521-12	07521-13	07521-14
Petroleum Hydrocarbons (FL-PRO)					
Petroleum Range Organics (FL-PRO), ug/kg dw	170034	115 %	130 %	12	30
Surrogate - o-Terphenyl	134	107 %	107 %	---	---
Surrogate - Nonatriacontane (C39)	56.0	112 %	112 %	---	---
Dilution Factor	1	1	1	---	---
Prep Date	07.25.00	07.25.00	07.25.00	---	---
Analysis Date	07.25.00	07.25.00	07.25.00	---	---
Batch ID	FLS080	FLS080	FLS080	---	---
Prep Method	3550	3550	3550	---	---
Analyst	HAH	HAH	HAH	---	---
Polynuclear Aromatic Hydrocarbons (8310)					
Acenaphthylene, ug/kg dw	241	69 %	72 %	5	67
Benzo(k)fluoranthene, ug/kg dw	570	95 %	152 %	39	53
Chrysene, ug/kg dw	362	104 %	102 %	1	45
Phenanthrene, ug/kg dw	334	105 %	100 %	4	48
Pyrene, ug/kg dw	380	96 %	105 %	8	49
Surrogate - 2-Chloroanthracene	115 %	103 %	115 %	---	---
Dilution Factor	1	1	1	---	---
Prep Date	07.25.00	07.25.00	07.25.00	---	---
Analysis Date	07.25.00	07.25.00	07.25.00	---	---
Batch ID	PAS252	PAS252	PAS252	---	---
Prep Method	3550	3550	3550	---	---
Analyst	SB	SB	SB	---	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-10	Matrix Spike Duplicate Result	
07521-11	Matrix Spike % Recovery	
07521-12	Matrix Spike Duplicate % Recovery	
07521-13	Precision (%RPD) MS/MSD	
07521-14	MS Precision Advisory Limit (%RPD)	

PARAMETER	07521-10	07521-11	07521-12	07521-13	07521-14
Volatile Organic Compounds (8260)					
Benzene, ug/kg dw	57.8	97 %	101 %	5	30
Chlorobenzene, ug/kg dw	63.6	107 %	112 %	5	30
1,1-Dichloroethene, ug/kg dw	55.1	92 %	97 %	5	30
Toluene, ug/kg dw	66.4	106 %	116 %	9	30
Trichloroethene, ug/kg dw	59.1	102 %	104 %	2	30
Surrogate - Dibromofluoromethane	91 %	93 %	91 %	---	---
Surrogate - Toluene-d8	100 %	100 %	100 %	---	---
Surrogate - 4-Bromofluorobenzene	96 %	100 %	96 %	---	---
Dilution Factor	1	1	1	---	---
Prep Date	07.25.00	07.25.00	07.25.00	---	---
Analysis Date	07.25.00	07.25.00	07.25.00	---	---
Batch ID	KAS097	KAS097	KAS097	---	---
Prep Method	5035	5035	5035	---	---
Analyst	DWB	DWB	DWB	---	---

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Code: 172500726

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07521-23	MS Accuracy Advisory Limit (%R)	
07521-24	Surrogate Recovery Limits	

PARAMETER	07521-23	07521-24
Petroleum Hydrocarbons (FL-PRO)		
Petroleum Range Organics (FL-PRO), ug/kg dw	62 - 204 %	---
Surrogate - o-Terphenyl	---	62 - 109 %
Surrogate - Nonatriacontane (C39)	---	60 - 118 %
Polynuclear Aromatic Hydrocarbons (8310)		
Acenaphthylene, ug/kg dw	12 - 145 %	---
Benzo(k)fluoranthene, ug/kg dw	22 - 130 %	---
Chrysene, ug/kg dw	27 - 140 %	---
Phenanthrene, ug/kg dw	40 - 121 %	---
Pyrene, ug/kg dw	29 - 133 %	---
Surrogate - 2-Chloroanthracene	---	17 - 160 %
Volatile Organic Compounds (8260)		
Bromobenzene, ug/kg dw	§→50-150 %	---
Chlorobenzene, ug/kg dw	50 - 150 %	---
1,1-Dichloroethene, ug/kg dw	50 - 150 %	---
Toluene, ug/kg dw	50 - 150 %	---
Trichloroethene, ug/kg dw	50 - 150 %	---
Surrogate - Dibromofluoromethane	---	70 - 130 %
Surrogate - Toluene-d8	---	70 - 130 %
Surrogate - 4-Bromofluorobenzene	---	70 - 130 %

Rick Hayes, Project Manager

Final Page Of Report

Appendix E

Analytical Laboratory Report for Confirmatory Soil Sample

H2M Hill Co[illegible]ctors, Inc.
[illegible] Perimeter Center Pl[illegible]00
[illegible] GA 30346-1278
[illegible] No (770) 604-918[illegible] Fax No (770) 604-9282

6580 202574(DOC)

CHAIN-OF-CUSTODY RECORD

149152-28 page 1 of 1

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No., and Fax No.)
N.A.S. Cecil Field Various Tank Removals	149152	Test America, Nashville, TN Nancy Reed	Jay Daniel, Environmental Recovery, Inc.	251 Levy Road, Atlantic Beach, FL 322233 phone (904) 241-2200 fax 904-241-4732
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER:	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No., and Fax No.)
	0002		Bill Canelos, CCI/JAJES	6219 Authority Road, Jacksonville, FL 32221 phone (904) 777-4812 fax 904-777-4262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.)
Bill Canelos	phone (904) 777-4812 fax 904-777-4262	phone (800) 765-0980		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	BTEX+MTBE 8260	Vol/Gas 18	PAH 8310	H-1120	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	002-EQ1-W-0802-00	Equipment Rinsate Blank - Soil Equipment Building 141	DI W	8/2/00	13:00	C	14	X	X	X		GRAB	108964	
2	002-EQ2-W-0802-00	Equipment Rinsate Blank - Grab Equipment Building 141 (Contaminated Soil Sample)	DI W	8/2/00	13:05	C	14	X	X			GRAB	165	
3	002-UST141-S-0802-00	Building 141 UST	S	8/2/00	13:15	C	14	X	X	X		GRAB	108963	
4	002-UST141-W-0802-00	Groundwater Sample Building 141 UST	GW	8/2/00	14:30	C	14	X	X			GRAB	166	
5	002-TB3-W-0802-00	Trip Blank	DI W	8/2/00	06:45	C	14	X				GRAB	108967	
6														
7														
8														
9														
10														

- Sample Containers Sealed in Ziplock Type bags and placed on Wet Ice for Transport
- Samples Hand Delivered to Intralab, Inc.

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

COURIER AND SHIPPING NUMBER:

SAMPLER(S) AND COMPANY (please print)
Richard Moriarity, Environmental Science Associates, Inc.

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Richard Moriarity	8/2/00	17:15	Printed Name and Signature:	8-2-00	17:15
Printed Name and Signature:	8-2-00	17:00	Printed Name and Signature: FEDEX	8-3-00	17:00

8-4-00/gw

Distribution | | Original - Laboratory (To be returned with Analytical Report); | | Copy 1 - Project File. | | Copy 2 - PMO

Form CC1001, Rev. 02/00

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INCORPORATED

Sample Identification

002-UST141-S-0802-00

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8021B
Delivery Group: 202574
Instrument: HP-19

Lab Sample ID: 00-A108963
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 20:59
Sample QC Group: 9433

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
71-43-2	Benzene	1.15	U
108-88-3	Toluene	1.15	U
100-41-4	Ethylbenzene	1.15	U
1330-20-7	Xylenes, total	1.15	U
1634-04-4	MTBE	11.5	U

TestAmerica
INCORPORATED

Sample Identification

002-UST141-S-0802-00

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 202574
Instrument:
Grams Extracted: 29.8 g
Extract Vol: 1.00 ml

Lab Sample ID: 00-A108963
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 9:19
Sample QC Group: 1528

Extraction Date: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	Naphthalene	38	.... U
.....	Acenaphthene	38	.... U
.....	Anthracene	25	.... U
.....	Fluoranthene	8	.... U
.....	Fluorene	20	.... U
.....	Pyrene	10	.... U
.....	Benzo(a)anthracene	4.9	.... U
.....	Benzo(a)pyrene	3	.... U
.....	Benzo(b)fluoranthene	7	.... U
.....	Benzo(k)fluoranthene	7	.... U
.....	Chrysene	6	.... U
.....	Dibenzo(a,h)anthracene	11	.... U
.....	Indeno(1,2,3-cd)pyrene	16	.... U
.....	Acenaphthylene	77	.... U
.....	Benzo(g,h,i)perylene	29	.... U
.....	Phenanthrene	24	.... U
.....	1-Methylnapthalene	38	.... U
.....	2-Methylnaphthalene	38	.... U

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INCORPORATED

Sample Identification

002-UST141-S-0802-00

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight

Lab Sample ID: 00-A108963
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG

Dilution Factor: 1.
Analysis Method: FPRO
Delivery Group: 202574
Instrument: PE-3
Grams Extracted: 25. g
Extract Vol: 2.0 ml

Analysis Date: 8/ 7/00
Analysis Time: 22:19
Sample QC Group: 2213

Extraction Date: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	.....TRPH	11500	.... U

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Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor: 1
Analysis Method: SW8015
Delivery Group: 202574
Instrument: HP-19

Lab Sample ID: BLANK
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 19:58
Sample QC Group: 9433

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION		FLAG
71-43-2	Benzene	1.	....	U
108-88-3	Toluene	1.	....	U
100-41-4	Ethylbenzene	1.	....	U
1330-20-7	Xylenes, total	1.	....	U
1634-04-4	MTBE	10.	....	U

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
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Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L

Lab Sample ID: BLANK
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00

Dilution Factor: 1
Analysis Method: SW8015
Delivery Group: 202574
Instrument: 9001-A

Analysis Date: 8/ 7/00
Analysis Time: 1:22
Sample QC Group: 2727

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION		FLAG
71-43-2	Benzene	1.	....	U
108-88-3	Toluene	1.	....	U
100-41-4	Ethylbenzene	1.	....	U
1330-20-7	Xylenes, total	1.	....	U
1634-04-4	Methyl-t-butylether	1.	....	U

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Sample Identification

002-EQ1-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8021B
Delivery Group: 202574
Instrument: 9001-A

Lab Sample ID: 00-A108964
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 2:25
Sample QC Group: 2727

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
71-43-2	Benzene	1.00	U
108-88-3	Toluene	1.00	U
100-41-4	Ethylbenzene	1.00	U
1330-20-7	Xylenes, total	1.00	U
1634-04-4	Methyl-t-butylether	1.00	U

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Sample Identification

002-EQ2-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8021B
Delivery Group: 202574
Instrument: 9001-A

Lab Sample ID: 00-A108965
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 2:57
Sample QC Group: 2727

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
71-43-2	Benzene	1.00	U
108-88-3	Toluene	1.00	U
100-41-4	Ethylbenzene	1.00	U
1330-20-7	Xylenes, total	1.00	U
1634-04-4	Methyl-t-butylether	1.00	U

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Sample Identification

002-TB3-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8021B
Delivery Group: 202574
Instrument: 9001-A

Lab Sample ID: 00-A108967
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 4:00
Sample QC Group: 2727

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
71-43-2	Benzene	1.00	U
108-88-3	Toluene	1.00	U
100-41-4	Ethylbenzene	1.00	U
1330-20-7	Xylenes, total	1.00	U
1634-04-4	Methyl-t-butylether	1.00	U

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Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Grams Extracted: 25.0 g
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00
Extraction Date: 8/ 4/00
QC BATCH# 2213

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	.....TRPH	5000	U

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Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00
Extraction Date: 8/4/00

QC BATCH # 2155

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	TRPH	100.	U

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TestAmerica
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Sample Identification

002-EQ1-W-0802-00

Matrix: Water
pH:
Units: ug/l

Lab Sample ID: 00-A108964
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG

Dilution Factor: 1.
Analysis Method: FPRO
Delivery Group: 202574
Instrument: PE-3
Vol Extracted: 985. ml
Extract Vol: 2.0 ml

Analysis Date: 8/ 8/00
Analysis Time: 0:14
Sample QC Group: 2155

Extraction Date: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	TRPH	230	....

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Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 202574
Instrument:
Grams Extracted: 30.0 g
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled:
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 9:19
Sample QC Group: 1528

Extraction Date: 8/4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	Naphthalene	33	U
.....	Acenaphthene	33	U
.....	Anthracene	22	U
.....	Fluoranthene	7	U
.....	Fluorene	17	U
.....	Pyrene	9	U
.....	Benzo(a)anthracene	4	U
.....	Benzo(a)pyrene	3	U
.....	Benzo(b)fluoranthene	6	U
.....	Benzo(k)fluoranthene	6	U
.....	Chrysene	5	U
.....	Dibenzo(a,h)anthracene	10	U
.....	Indeno(1,2,3-cd)pyrene	14	U
.....	Acenaphthylene	67	U
.....	Benzo(g,h,i)perylene	25	U
.....	Phenanthrene	21	U
.....	1-Methylnapthalene	33	U
.....	2-Methylnaphthalene	33	U

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Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 202574
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 6/00
Analysis Time: 9:04
Sample QC Group: 1532

Extraction Date: 8/4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.00	U
83-32-9	Acenaphthene	1.00	U
120-12-7	Anthracene	0.66	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.50	U
129-00-0	Pyrene	0.27	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.10	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.30	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	U
208-96-8	Acenaphthylene	2.00	U
191-24-2	Benzo(g,h,i)perylene	0.76	U
85-01-8	Phenanthrene	0.64	U
90-12-0	1-Methylnapthalene	1.00	U
91-57-6	2-Methylnaphthalene	1.00	U

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Sample Identification

002-EQ1-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 202574
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A108964
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 6/00
Analysis Time: 9:04
Sample QC Group: 1532

Extraction Date: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
83-32-9	Acenaphthene	1.04	U
120-12-7	Anthracene	0.69	U
206-44-0	Fluoranthene	0.29	
7782-41-4	Fluorene	0.52	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.14	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	U
208-96-8	Acenaphthylene	2.08	U
191-24-2	Benzo(g,h,i)perylene	0.79	U
85-01-8	Phenanthrene	0.67	U
90-12-0	1-Methylnapthalene	1.04	U
91-57-6	2-Methylnaphthalene	1.04	U

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TestAmerica
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Sample Identification

002-EQ2-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 202574
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A108965
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 6/00
Analysis Time: 9:04
Sample QC Group: 1532

Extraction Date: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
83-32-9	Acenaphthene	1.04	U
120-12-7	Anthracene	0.69	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.52	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.14	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	U
208-96-8	Acenaphthylene	2.08	U
191-24-2	Benzo(g,h,i)perylene	0.79	U
85-01-8	Phenanthrene	0.67	U
90-12-0	1-Methylnapthalene	1.04	U
91-57-6	2-Methylnaphthalene	1.04	U

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

Appendix F

Analytical Laboratory Report for Confirmatory Groundwater Sample

H2M Hill Co[illegible]ctors, Inc.
[illegible] Perimeter Center Pl[illegible]
[illegible] GA 30346-1278
[illegible] No (770) 604-918[illegible] ; Fax No (770) 604-928[illegible]

CHAIN-[illegible] CUSTODY RECORD

149152-2[illegible] page 1 of 1

6580 202574(DOC)

[illegible]OJECT NAME [illegible].A.S. Cecil Field [illegible]arious Tank Removals	PROJECT NUMBER 149152	LAB NAME AND CONTACT Test America, Nashville, TN Nancy Reed	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company) Jay Daniel, Environmental Recovery, Inc.	RECIPIENT 1 (Address, Tel No., and Fax No.) 251 Levy Road, Atlantic Beach, FL 322233 phone (904) 241-2200 fax 904-241-4732
[illegible]OJECT PHASE/SITE/TASK	CTO OR DO NUMBER: 0002	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company) Bill Canelos, CCI/JAJES	RECIPIENT 2 (Address, Tel No., and Fax No.) 6219 Authority Road, Jacksonville, FL 32221 phone (904) 777-4812 fax 904-777-4262
[illegible]ROJECT CONTACT [illegible]ill Canelos	PROJECT TEL NO AND FAX NO: phone (904) 777-4812 fax 904-777-4262	LAB TEL NO AND FAX NO phone (800) 765-0980	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.)

ANALYSES REQUIRED (Include Method Numbers)

[illegible]TEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	BTEX+MTBE Vol 1/8021B	PAH 8310	Pb-1120	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	002-EQ1-W-0802-00	Equipment Rinsate Blank - Soil Equipment Building 141	DI W	8/2/00	13:00	C	14	X	X	X	GRAB	108964	
2	002-EQ2-W-0802-00	Equipment Rinsate Blank - Soil Equipment Building 141	DI W	8/2/00	13:05	C	14	X	X		GRAB	1 65	
3	002-UST141-S-0802-00	(Composite) Soil Sample Building 141 UST	S	8/2/00	13:15	C	14	X	X	X	GRAB	108963	
4	002-UST141-W-0802-00	Groundwater Sample Building 141 UST	GW	8/2/00	14:30	C	14	X	X		GRAB	1 66	
5	002-TB3-W-0802-00	Trip Blank	DI W	8/2/00	06:45	C	14	X			GRAB	108967	
6													
7													
8													
9													
10													

- Sample Containers Sealed in "Ziplock" Type Bags and placed on Wet Ice for Transport
- Samples Hand Delivered to Intralab, Inc.

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

SAMPLER(S) AND COMPANY (please print)
Richard Moriarity, Environmental Science Associates, Inc.

COURIER AND SHIPPING NUMBER:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature Richard Moriarity	8/2/00	17:15	Printed Name and Signature [illegible]	8-2-00	17:15
Printed Name and Signature [illegible]	8-3-00	17:00	Printed Name and Signature FEDEX	8-3-00	17:00

8-4-00/[illegible]

Form CC1001, Rev. 02/00

Distribution: | Original - Laboratory (To be returned with Analytical Report). | | Copy 1 - Project File. | | Copy 2 - PMO

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INCORPORATED

Sample Identification

002-UST 141-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8021B
Delivery Group: 202574
Instrument: 9001-A

Lab Sample ID: 00-A108966
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 3:28
Sample QC Group: 2727

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
71-43-2	Benzene	1.00	U
108-88-3	Toluene	1.00	U
100-41-4	Ethylbenzene	1.00	U
1330-20-7	Xylenes, total	1.00	U
1634-04-4	Methyl-t-butylether	1.00	U

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Sample Identification

002-UST 141-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 202574
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A108966
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 6/00
Analysis Time: 9:04
Sample QC Group: 1532

Extraction Date: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
83-32-9	Acenaphthene	1.04	U
120-12-7	Anthracene	0.69	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.52	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.14	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	U
208-96-8	Acenaphthylene	2.08	U
191-24-2	Benzo(g,h,i)perylene	0.79	U
85-01-8	Phenanthrene	0.67	U
90-12-0	1-Methylnapthalene	1.04	U
91-57-6	2-Methylnaphthalene	1.04	U

2960 Foster Creighton Drive / Nashville,TN 37204 / 615-726-0177 / Fax: 615-726-0954 / 800-765-0980

TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor: 1
Analysis Method: SW8015
Delivery Group: 202574
Instrument: HP-19

Lab Sample ID: BLANK
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 19:58
Sample QC Group: 9433

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION		FLAG
71-43-2	Benzene	1.	....	U
108-88-3	Toluene	1.	....	U
100-41-4	Ethylbenzene	1.	....	U
1330-20-7	Xylenes, total	1.	....	U
1634-04-4	MTBE	10.	....	U

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TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L

Lab Sample ID: BLANK
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00

Dilution Factor: 1
Analysis Method: SW8015
Delivery Group: 202574
Instrument: 9001-A

Analysis Date: 8/ 7/00
Analysis Time: 1:22
Sample QC Group: 2727

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION		FLAG
71-43-2	Benzene	1.	....	U
108-88-3	Toluene	1.	....	U
100-41-4	Ethylbenzene	1.	....	U
1330-20-7	Xylenes, total	1.	....	U
1634-04-4	Methyl-t-butylether	1.	....	U

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TestAmerica
INCORPORATED

Sample Identification

002-EQ1-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8021B
Delivery Group: 202574
Instrument: 9001-A

Lab Sample ID: 00-A108964
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 2:25
Sample QC Group: 2727

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
71-43-2	Benzene	1.00	U
108-88-3	Toluene	1.00	U
100-41-4	Ethylbenzene	1.00	U
1330-20-7	Xylenes, total	1.00	U
1634-04-4	Methyl-t-butylether	1.00	U

TestAmerica
INCORPORATED

Sample Identification

002-EQ2-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8021B
Delivery Group: 202574
Instrument: 9001-A

Lab Sample ID: 00-A108965
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 2:57
Sample QC Group: 2727

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
71-43-2	Benzene	1.00	U
108-88-3	Toluene	1.00	U
100-41-4	Ethylbenzene	1.00	U
1330-20-7	Xylenes, total	1.00	U
1634-04-4	Methyl-t-butylether	1.00	U

TestAmerica
INCORPORATED

Sample Identification

002-TB3-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8021B
Delivery Group: 202574
Instrument: 9001-A

Lab Sample ID: 00-A108967
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 4:00
Sample QC Group: 2727

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
71-43-2	Benzene	1.00	U
108-88-3	Toluene	1.00	U
100-41-4	Ethylbenzene	1.00	U
1330-20-7	Xylenes, total	1.00	U
1634-04-4	Methyl-t-butylether	1.00	U

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TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Grams Extracted: 25.0 g
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00
Extraction Date: 8/ 4/00

QC BATCH# 2213

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	.....TRPH	5000	U

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TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00
Extraction Date: 8/4/00

QC BATCH # 2155

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	TRPH	100.	U

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TestAmerica
INCORPORATED

Sample Identification

002-EQ1-W-0802-00

Matrix: Water
pH:
Units: ug/l

Lab Sample ID: 00-A108964
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG

Dilution Factor: 1.
Analysis Method: FPRO
Delivery Group: 202574
Instrument: PE-3
Vol Extracted: 985. ml
Extract Vol: 2.0 ml

Analysis Date: 8/ 8/00
Analysis Time: 0:14
Sample QC Group: 2155

Extraction Date: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	TRPH	230	....

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TestAmerica
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Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 202574
Instrument:
Grams Extracted: 30.0 g
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled:
Date Received: 8/ 4/00
Analysis Date: 8/ 7/00
Analysis Time: 9:19
Sample QC Group: 1528

Extraction Date: 8/4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	Naphthalene	33	U
.....	Acenaphthene	33	U
.....	Anthracene	22	U
.....	Fluoranthene	7	U
.....	Fluorene	17	U
.....	Pyrene	9	U
.....	Benzo(a)anthracene	4	U
.....	Benzo(a)pyrene	3	U
.....	Benzo(b)fluoranthene	6	U
.....	Benzo(k)fluoranthene	6	U
.....	Chrysene	5	U
.....	Dibenzo(a,h)anthracene	10	U
.....	Indeno(1,2,3-cd)pyrene	14	U
.....	Acenaphthylene	67	U
.....	Benzo(g,h,i)perylene	25	U
.....	Phenanthrene	21	U
.....	1-Methylnapthalene	33	U
.....	2-Methylnaphthalene	33	U

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TestAmerica
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Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 202574
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 6/00
Analysis Time: 9:04
Sample QC Group: 1532

Extraction Date: 8/4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.00	U
83-32-9	Acenaphthene	1.00	U
120-12-7	Anthracene	0.66	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.50	U
129-00-0	Pyrene	0.27	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.10	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.30	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	U
208-96-8	Acenaphthylene	2.00	U
191-24-2	Benzo(g,h,i)perylene	0.76	U
85-01-8	Phenanthrene	0.64	U
90-12-0	1-Methylnapthalene	1.00	U
91-57-6	2-Methylnaphthalene	1.00	U

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TestAmerica
INCORPORATED

Sample Identification

002-EQ1-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 202574
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A108964
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 6/00
Analysis Time: 9:04
Sample QC Group: 1532

Extraction Date: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
83-32-9	Acenaphthene	1.04	U
120-12-7	Anthracene	0.69	U
206-44-0	Fluoranthene	0.29	
7782-41-4	Fluorene	0.52	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.14	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	U
208-96-8	Acenaphthylene	2.08	U
191-24-2	Benzo(g,h,i)perylene	0.79	U
85-01-8	Phenanthrene	0.67	U
90-12-0	1-Methylnapthalene	1.04	U
91-57-6	2-Methylnaphthalene	1.04	U

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TestAmerica
INCORPORATED

Sample Identification

002-EQ2-W-0802-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 202574
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A108965
Date Sampled:: 8/ 2/00
Date Received: 8/ 4/00
Analysis Date: 8/ 6/00
Analysis Time: 9:04
Sample QC Group: 1532

Extraction Date: 8/ 4/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
83-32-9	Acenaphthene	1.04	U
120-12-7	Anthracene	0.69	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.52	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.14	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	U
208-96-8	Acenaphthylene	2.08	U
191-24-2	Benzo(g,h,i)perylene	0.79	U
85-01-8	Phenanthrene	0.67	U
90-12-0	1-Methylnapthalene	1.04	U
91-57-6	2-Methylnaphthalene	1.04	U

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Appendix G

FDEP Forms

EXHIBIT 6-3.1

Florida Department of Environmental Protection

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DEP Form #	62-761.900(2)
Form Title	Storage Tank Registration Form
Effective Date:	July 13, 1998
DEP Application No.	(Filled in by DEP)

Storage Tank Facility Registration Form

Submit a completed form for the facility when registration of storage tanks or compression vessels is required by Chapter 376.303, Florida Statutes

Please review *Registration Instructions* before completing the form.

Please check all that apply			
	[ ] New Registration	[ ] New Owner	[ ] New Tanks
	[ ] Facility Info Update/Correction	[ ] Owner Info Update/Correction	[X] Tank Info Update/Correction

A. FACILITY INFORMATION County: DUVAL DEP Facility ID: 168507293

Facility Name: NAS CECIL FIELD

Facility Address: 13200 NORMANDY BLVD. BLDG # 141 City: JACKSONVILLE, FL. Zip: 32215

Facility Contact: DAVE KRUZICKI Business Phone: (904) 778-5440

Facility Type(s): ELECTRICAL GENERATOR NAICS Code: Financial Responsibility: U S GOVT.

24 Hour Emergency Contact: Emergency Phone: ( )

B. RESPONSIBLE PERSON INFORMATION - Identify Individual(s) or Business(es) responsible for storage tank management, fueling operations, and/or cleanup activities at the facility location named above. **Provide additional information in an attachment if necessary.**

Name: US GOVT./US NAVY	Facility - Responsible Person Relation Type:	Effective Date
Mail address: CARETAKER SITE OFFICE SO DIV NAVFACENGCOM	[√] Facility Account Owner (pays fees)	
City, ST, Zip: P. O. BOX 150853,JACKSONVILLE, FL 32221-0853	Facility Account Owner information must be provided when the facility contains active (in-use) storage tanks on site.	
Contact:		
Telephone:	STCM Account Number (if known)	
Identify other appropriate facility relationships for this party: [X] Facility Owner/Operator [X] Property Owner [X] Storage Tank Owner		

Name:	Other owner, relationship type(s)	Effective Date
Mail address:	[ ] Facility Owner/Operator	
City, ST, Zip:	[ ] Property Owner	
Contact:	[ ] Storage Tank Owner	
Telephone:	[ ] Other:	

C. TANK/VESSEL INFORMATION - Complete one row for each storage tank or compression vessel system located at this facility.

Tank ID	T/V	A/U	Capacity	Installed	Content	Status/Effective Date		Construction	Piping	Monitoring
G141 LS	T	U	250	UNK	G	B	11/00	C	B	N

Certified Contractor (peforming tank installation or removal): ENVIRONMENTAL RECOVERY, INC. DBPR License No.: PC-C050751

Registration Certification: To the best of my knowledge and belief, all information submitted on this form is true, accurate, and complete.

J. D. DANIEL, VICE PRES, ERI — Printed Name & Title

Signature

12/31/00 — Date

DEP 62-761.900(2)

EXHIBIT 6-5.2

Florida Department of Environmental Protection
Twin Towers Office Bldg.•2600 Blair Stone Road•Tallahassee, Florida 32399-2400

DEP Form #	62-761.900(5)
Form Title:	UST Contractor Form
Effective Date:	July 13, 1998

Underground Storage System Installation and Removal Form for Certified Contractors

Pollutant Storage Systems Contractor as defined in Section 489.113, Florida Statutes (certified contractors as defined in Section 62-761.200, Florida Administrative Code) shall use this form to certify that the installation, replacement or removal of the underground storage tank system(s) located at the address listed below was performed in accordance with Department Reference Standards. This includes system components such as dispenser liners, piping sumps, and overfill protection devices.

General Facility Information

Facility Name: NAS CECIL FIELD	DEP Facility Identification No.: 168507293
Street Address (physical location): 13200 NORMANDY BLVD BLDG # 141, JACKSONVILLE, FL 32215	
County: DUVAL	Telephone #: ( )
Owner Name: US GOVT / US NAVY	Telephone #: (904) 778 - 5440
Owner Address: CARETAKER SITE OFFICE SO DIV NAVFACENGCOM, PO BOX 150853, JACKSONVILLE, FL 32228	

Storage Tank System Information

Number of Tanks Installed:	Number of Tanks Removed: ONE (1) UST # G141LS
Date Work Initiated: SEPTEMBER 2000	Date Work Completed: NOVEMBER 2000
Tank(s) Manufactured by:	
Description of work Completed: REMOVE TANK, TRIPLE RINSE, DISPOSE VIA LOCAL SCRAP RECYCLER IN ACCORDANCE WITH F.A.C 62-761	

Certification

I hereby certify and attest that I am familiar with the facility that is registered with the Florida Department of Environmental Protection; that to the best of my knowledge and belief, the storage tank system installation, replacement or removal at this facility was conducted in accordance with Chapter 489, Florida Statutes, Section 376.303, Florida Statutes, and Chapter 62-761, Florida Administrative Code, and its adopted reference standards and documents for underground storage tank systems.

ENVIRONMENTAL RECOVERY, INC. (Type or Print) Certified Pollutant Tank Contractor Name	PC C050751 PSSC Number Pollutant Storage Systems Contractor License Number
Russell B. Boyd Certified Tank Contractor Signature	DEC 31, 2000 Date
JAY NEVIN Field Supervisor Name	DEC 31, 2000 Date

The owner or operator of the facility must register the tanks with the Department upon completion of the installation. The installer must submit this form to the County no more than 30 days after the completion of installation, replacement, or removal of a storage tank system.

Appendix H

Well Abandonment Log

USI Jacksonville, FL P-311 Q

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

PERMIT # _____ CUP # _____ DID # _____
Number of wells drilled 1 /WUP # _____
Indicate remaining wells to be cancelled _____
(All wells drilled need an individual completion report)
WATER WELL CONTRACTOR'S
SIGNATURE [signature] License # 11158
I certify that the information provided in this report is accurate and true.

Grout	No. of Bags	From (ft.)	To (ft.)
Neat Cement:	02	0	15
Bentonite:			

WELL LOCATION: Site Address Cecil Field County DUVAL
Qtr: ____ Qtr: ____ Sec: ____ Twp: 3S Rge: 25E
Latitude: ____ Longitude ____

DATE STAMP
Official Use Only

Sketch of well location on property N

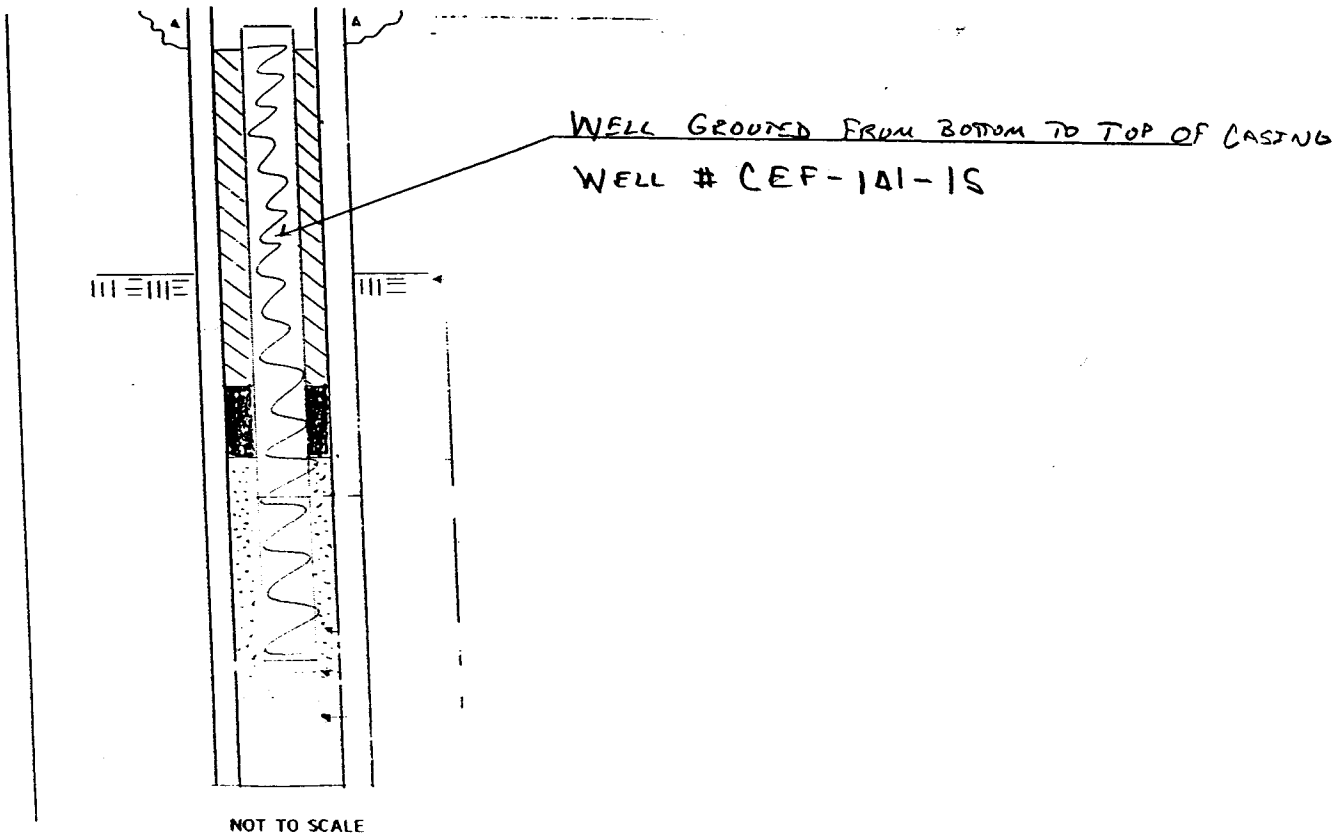
Give distances from septic tank and house or other reference points

CHEMICAL ANALYSIS

Iron: ____ ppm Sulfate: ____ ppm
Chlorides: ____ ppm
[ ] Lab Test [ ] Field Test Kit
Pump Type
[ ] Centrifugal [ ] Jet [ ] Submersible
[ ] Turbine
Horsepower ____ Capacity ____ G.P.M. ____
Pump Depth ____ Ft. Intake Depth ____ Ft.

OWNER'S NAME Cecil Field, NAVY
COMPLETION DATE 7-31-00 Florida Unique I.D. ____
WELL USE: DEP/Public ____ Irrigation ____ Domestic ____ Monitor X
HRS Limited ____ 62-524 ____ Other ____
DRILL METHOD ☐ Rotary ☐ Cable Tool ☐ Combination
☐ Jet ☐ Auger Other Tremie

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. ☒ PVC Other ____

☐ Open Hole ☒ Screen Casing Diameter & Depth (Ft.)	Depth (Ft.) From	To	DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Give color, grain size, and type of material. Note cavities, depth to producing zones.
Diameter 2	0	15	Abandoned well
From 0			tremie
To 5			
Diameter ____			
From ____			
To ____			
Liner ☐ or Casing ☐			
Diameter ____			
From ____			
To ____			

Driller's Name: (print or type) RANDY CONRAD