N60200.AR.002871
NAS CECIL FIELD, FL
5090.3a

SOURCE REMOVAL REPORT FOR ABOVEGROUND STORAGE TANK CLOSURE AT BUILDING 190 TANK G190 AST WITH TRANSMITTAL LETTER NAS CECIL FIELD FL
3/20/2001
CH2MHILL CONSTRUCTORS INC

CH2MHILL
Constructors, Inc.

CH2M HILL
115 Perimeter Center Place NE
Suite 700
Atlanta, GA
30346-1278
Tel 770.604.9095
Fax 770.604.9183

March 20, 2001

Mr. Nick Ugolini
Southern Division, Naval Facilities Engineering Command
P.O. Box 190010
North Charleston, SC 29419-9010

RE: Contract No. N62467-98-D-0995
Contract Task Order 0002 – Naval Air Station (NAS) Cecil Field – Jacksonville, Florida
Source Removal Report for the AST Closure at Building 190, Tank Number G190 AST

Dear Mr. Ugolini:

CH2M HILL Constructors, Inc. (CCI) is pleased to provide one copy of the enclosed Source Removal Report for the AST Closure at Building 190, Tank Number G190 AST at NAS Cecil Field in Jacksonville, Florida.

If you have any questions or comments regarding the enclosed, please do not hesitate to contact me at (904) 777-4812.

Sincerely,

CH2M HILL Constructors, Inc.

Samuel M. Ross
Project Manager

cc: Jimmy Jones, SOUTHDIV (w/o)
Larry Blackburn, ROICC
Mike Deliz, FDEP
Mark Speranza, TetraTech NUS (2 copies)
Paul Calligan, TetraTech NUS
CCI Project File No. 149152

Source Removal Report

Aboveground Storage Tank Closure at Building 190

Tank Number G190 AST

Naval Air Station Cecil Field Jacksonville, Florida

Contract No. N62467-98-D-0995 Contract Task Order No. 0002

Submitted to:

U.S. Naval Facilities Engineering Command Southern Division

Prepared by:

CH2MHILL Constructors, Inc.

115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

March 2001

Source Removal Report
Aboveground Storage Tank Closure at Building 190
Tank Number G190 AST

Contract No. N62467-98-D-0995
Contract Task Order No. 0002

Naval Air Station Cecil Field
Jacksonville, Florida

Submitted to:

U.S. Naval Facilities
Engineering Command
Southern Division

Prepared by:

CH2MHILL
Constructors, Inc.

March 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

Distribution List

	Copies
Southern Division, Naval Facilities Engineering Command	1
NAS Cecil Field	1
City of Jacksonville, Regulatory and Environmental Services Department, Air and Water Quality Division	1
CH2M HILL, Inc.	1
Tetra Tech NUS, Inc.	2

CERTIFICATION OF TECHNICAL DATA CONFORMITY (March 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

Certificate of Completion

CH2M HILL Constructors, Inc., attests that, to the best of its knowledge and belief, the aboveground storage tank closure at Building 190, 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

Contents

1.0 Introduction 1-1
1.1 Site Background 1-1
1.2 Project Objectives 1-4
2.0 Source Removal Activities 2-1
2.1 Site Preparation 2-1
2.2 Tank Removal 2-1
2.3 Soil Excavation And Disposal 2-1
2.3.1 Soil Excavation 2-3
2.3.2 Soil Transportation and Disposal 2-4
2.3.3 Backfilling and Site Restoration 2-5
2.4 Sampling and Analysis 2-5
2.4.1 Headspace Analysis 2-5
2.4.2 Laboratory Analysis of Soil Samples 2-5
2.4.3 Collection and Laboratory Analyses of Groundwater Samples 2-6
2.4.4 Table 2.4 2-7
3.0 Conclusions 3-1
4.0 References 4-1

Appendices

A Photo Documentation
B Copies of Waste Disposal Manifests and Waste Characterization Analysis
C Certificate of Treatment
D Analytical Laboratory Reports for Clean Fill
E Analytical Laboratory Reports for Confirmatory Soil Sample
F Analytical Laboratory Reports for Confirmatory Groundwater Sample
G FDEP Forms

Figures

1-1 Site Location Map 1-2
1-2 Pre-Excavation Conditions 1-3
2-1 Soil Excavation Area 2-3

Tables

2-1 Summary of Manifests for Soil Disposal 2-2
2-2 Summary of Headspace Screening Results 2-4
2-3 Summary of KAG Analyses for Soil 2-7
2-4 Summary of KAG Analyses for Groundwater 2-7

Acronyms

ABB	ABB Environmental Services, Inc.
AST	aboveground storage tank
bls	below land surface
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
FDOT	Florida Department of Transportation
FID	flame ionization detector
FL-PRO	Florida Petroleum Residual Organic
GCTLs	groundwater cleanup target levels
KAG	kerosene analytical group
µg/L	micrograms per liter
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
SPLP	synthetic precipitation leaching procedure
TOC	top of casing
TtNUS	Tetra Tech NUS, Inc.
TRPH	total recoverable petroleum hydrocarbons
VOCs	volatile organic compounds

Source Removal Report Requirements – *Checklist*

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

Site Name: Building 190, Tank #190AST **Date(s) of Source Removal: 07/31/00**

Required Information	Response
1. Volume of product that was discharged, if known	*Unknown*
2. Volume of free product and the volume of groundwater recovered	*Not Applicable – No free product observed; no groundwater recovered.*
3. Volume of contaminated soil excavated and treated or properly disposed	*Approximately 5.0 tons of soil excavated and disposed of offsite (See Section 2.3.2.*
4. Disposal or recycling methods for free product and contaminated soil	*Contaminated soils recycled at Kedesh, Inc., Kingsland, Georgia by thermal treatment/recycling.*
5. Disposal methods for other contaminated media	*Residual Tank liquids and washwater treated and disposed at Industrial Water Services, Jacksonville, Florida.*
6. Scaled site map (including a graphical representation of the scale used) showing the area of soil removed or treated and the approximate locations of all samples taken	*See Figure 1-2.*
7. Table summarizing free product thickness in each monitoring well or piezometer and the dates the measurements were made	*No free product observed in monitoring well CEF-190-1S (see Figure 1-2).*
8. Type of field screening instrument or method used	*Foxboro Model 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: approx. 8 feet long by 5 feet wide by 4 feet deep less concrete pad area (see Figure 2-1).* *One 1,500-gallon AST contained Diesel Fuel (see Figure 1-2.)*
10. Dimensions of the excavation(s) and location(s) and capacities of replacement underground storage tanks	*Not Applicable. No replacement tank installed.*
11. Table indicating the identification, depth and field soil screening results of each sample collected	*See Table 2-1.*
12. Depth to groundwater at the time of each excavation, measurement locations and method used to obtain that information	*Depth to groundwater approximately 3.38 feet bls. Measured by electronic water level indicator (See Section 2.2.1) in well #CEF-190-1s (see Figure 1-2).*
13. Type of petroleum or petroleum products reportedly discharged	*Diesel Fuel*
14. Documentation confirming the proper treatment or proper disposal of contaminated soil, including disposal manifests , a copy of the treatment or acceptance of the contaminated soil and results of analyses, if performed	*See Table 2-2 and Appendices B and C.*
15. For land farmed soil, a copy of the pre-treatment and post-treatment analytical results	*Not Applicable. Soil recycled offsite.*

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI) was contracted by the Southern Division Naval Facilities Engineering Command (NAVFAC) to perform the removal and closure assessment of one (1) 1,500-gallon Aboveground Storage Tank (AST), and to excavate petroleum-contaminated soil associated with the AST at Building 190 at Naval Air Station (NAS) Cecil Field in Jacksonville, Duval County, Florida (refer to Figure 1-1, Site Location Map). The tank was used to store diesel fuel for use in an emergency generator system at Building 190. The closure assessment activities were conducted in accordance with the requirements of Chapter 62-761 Florida Administrative Code (FAC), and in accordance with 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 source removal was conducted in accordance with the FDEP Petroleum Contamination Site Cleanup rule, Chapter 62-770 FAC.

The scope of services for tank removal and excavation of petroleum-contaminated soils at Building 190 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 (NTFF) and Removals at Various Tank Sites, (CCI, 2000). This work was authorized under the Response Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0002.

1.1 Site Background

The site contained one 1,500-gallon aboveground storage tank (AST) that had been used to store diesel fuel for use in the building's emergency generator system. The AST was located on the south side of Building 190, within a secondary containment structure constructed of cast-in-place concrete, and surrounded by a chain-link fence. Product piping, which extended from the top of the tank to the emergency generator room located on the south side of Building 190, was aboveground and was located within a concrete secondary containment chase, such that the piping was not in contact with the ground. The date of installation of the AST was not known. An investigation conducted by ABB Environmental Services, Inc. (ABB) dated November 1997, indicated the presence of soil contamination in the vicinity of the AST, with the highest apparent contamination reported in a soil boring conducted at the east end of the AST, adjacent to the gate valve (drain) located in the east wall of the AST secondary containment structure. That study also included collection and analysis of a groundwater sample from a monitoring well installed in the apparent worst case location. The results of the groundwater analysis from the 1997 report revealed no evidence of groundwater contamination in excess of the applicable regulatory concentrations (ABB, 1997). A site plan showing the site and the site conditions prior to the source removal is presented in Figure 1-2.

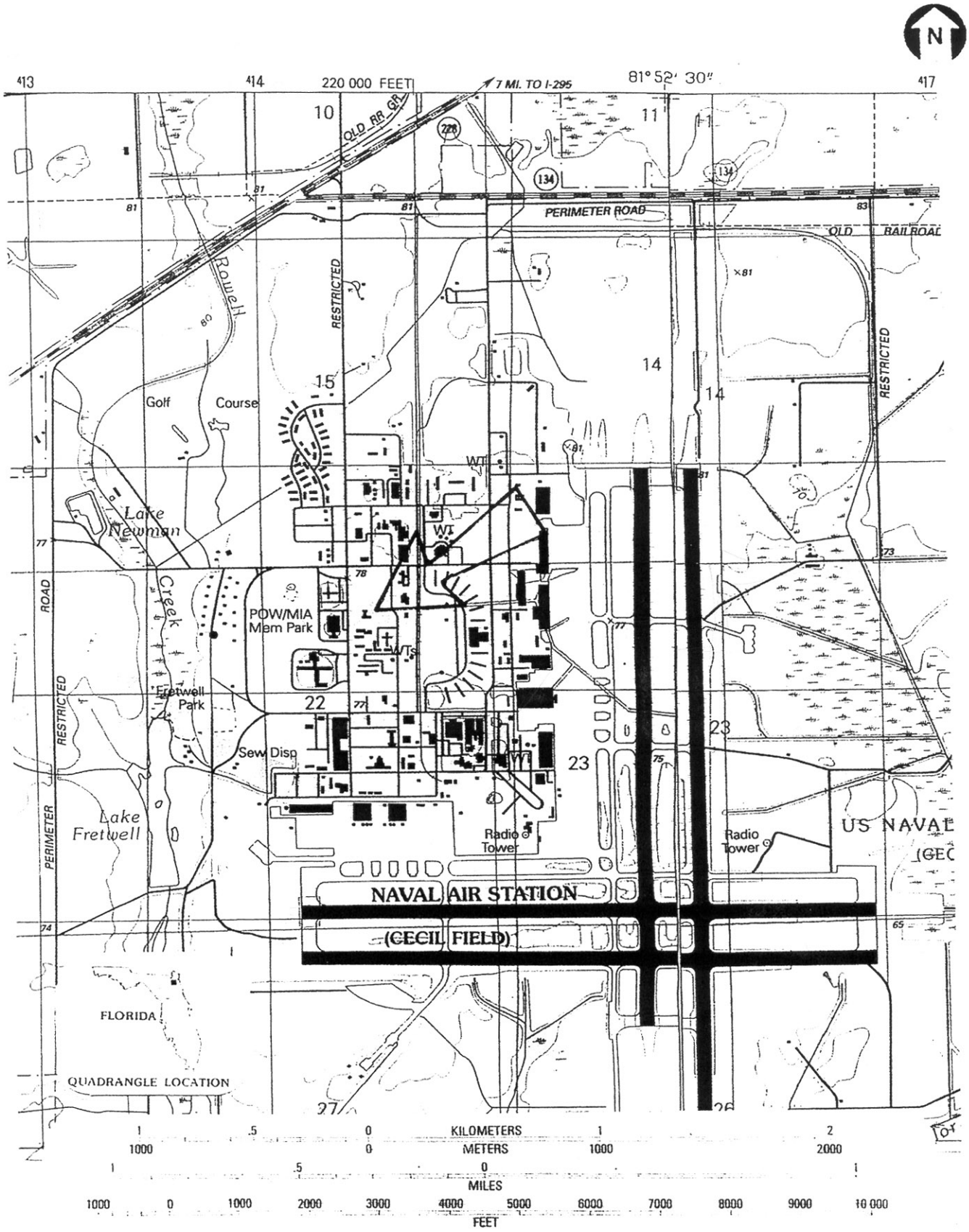


Figure 1-1
USGS Topographic Map, Fiftone and Jacksonville Heights Quadrangles
Building 190, AST # G190
NAS Cecil Field, Jacksonville, Florida

CH2MHILL

A022000004ATL\Cecil 124.fh8

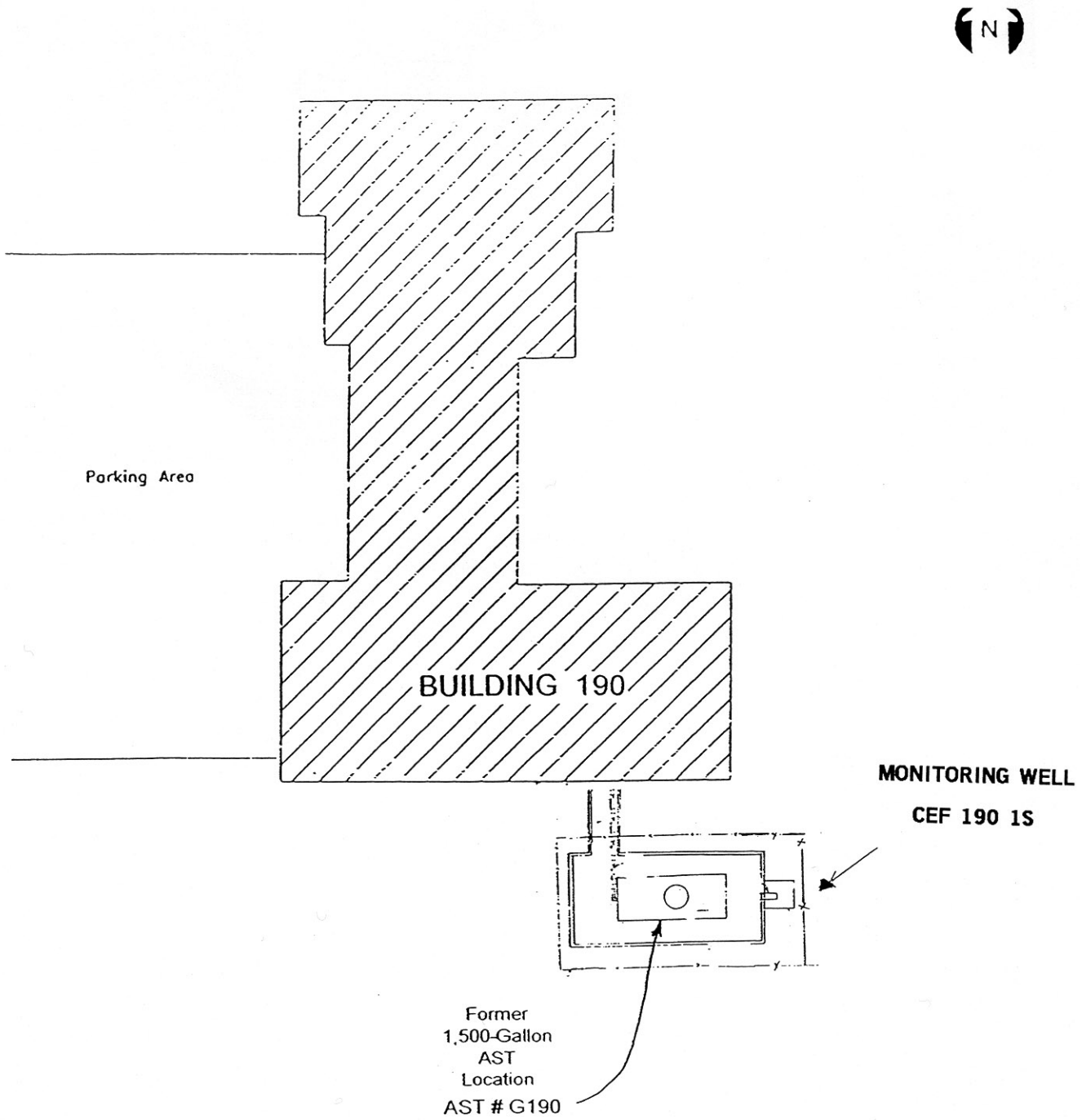


Figure 1-2
UST Closure and Source Removal
Building 190, AST # G190
NAS Cecil Field, Jacksonville, Florida

CH2MHILL

A022000004ATL\Cecil 128.fh8

1.2 Project Objectives

The primary objective of the soil excavation that was performed in conjunction with the AST removal at the site was to remove petroleum-contaminated soils that exceeded the soil cleanup target levels (SCTLs) outlined in Chapters 62-770 and 62-777 FAC. FDEP allows the use of headspace analysis as a screening tool in evaluating whether soil samples exceed the SCTLs. Soil exhibiting an organic vapor analyzer (OVA) concentration of greater than 10 parts per million (ppm) was considered to be contaminated and was expected to contain constituents exceeding the SCTLs. Soil was excavated until OVA concentrations of less than 10 ppm were achieved, and then confirmatory sampling for the Kerosene Analytical Group (KAG) was performed. 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 Residual Petroleum (FL-PRO) method. Following backfilling of the excavation, a temporary well point was installed, and a groundwater sample was collected, from the location selected as representative of the apparent worst case location, based on the results of the OVA soil screening as well as on visual indications. The groundwater sample was analyzed for volatile organic compounds (VOCs) by EPA Method 8021BB, and polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8310.

2.0 Source Removal Activities

The AST closure and source removal was conducted at Building 190 on July 31, 2000. An estimated total of 5 tons of petroleum contaminated soil was excavated from the area around the east end of the former AST/containment structure, adjacent to the gate valve (drain) located on the east wall of the secondary containment. This soil was disposed offsite by thermal treatment/recycling. No free product was observed during the excavation. Photo documentation of the field activities is provided in Appendix A.

2.1 Site Preparation

In preparation for excavation, underground utility locate services were contacted for underground utility locations within the area of concern. The underground utility locate service identified a subsurface gas line approximately 5 feet north of the proposed excavation area, running in an east-west direction. This line was not encountered during the field activities. During soil excavation activities, one previously unidentified underground conduit was encountered but not damaged. The purpose of this conduit was not determined, but was believed to be an inactive communications cable. No other utilities were encountered during the AST removal or soil excavation activities.

2.2 Tank Removal

One 1,500-gallon steel AST and associated piping was removed on July 31, 2000. The AST was visually inspected and appeared to be in good condition, with no holes or leaks observed. Prior to initiating the tank removal activities, a visual inspection of the AST fill port, product lines, vent pipe, and surrounding areas was conducted, and no visible evidence of contamination was observed. Residual liquids (petroleum contact water) contained within the tank were recovered for disposal by vacuum tanker and the tank was rinsed and inerted. Product lines were dismantled and were suctioned and rinsed prior to removal. The empty tank and associated piping were decontaminated and disposed offsite. An estimated 1750 gallons of liquid generated by the AST removal activities were transported from the site for treatment/disposal at an industrial water facility, Industrial Water Services, of Jacksonville, Florida, which is permitted to accept petroleum contaminated wastewater. Copies of the manifest and waste characterization analysis and certificate documenting the disposal of these liquids are provided in Appendix B.

2.3 Soil Excavation And Disposal

The presence of petroleum contaminated soils in the vicinity of the AST containment structure at Building 190 was identified by a previous study conducted by ABB (ABB, November 1997). Source removal activities, including the excavation of soils from the area previously identified as contaminated, was conducted concurrently with the AST removal. Soil excavation was initiated near the east end of the AST containment structure at the point of outfall of the gate valve (drain) to the containment structure. The delineation of contamination during soil excavation was performed by screening samples collected from the walls and floor of the excavation using OVA headspace analysis procedures, in accordance with Chapter 62-770 FAC.

In this procedure, two clean 16-ounce, widemouth glass jars are half-filled with the soil sample to be tested, each jar is 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/flame ionization detector (FID). One jar was analyzed without a carbon filter and the other jar with a carbon filter in order to detect and correct for the presence of naturally occurring organic vapors (i.e., methane). The corrected reading is 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. Soil with OVA readings in excess of 10 ppm was excavated and excavation was continued until OVA readings were below 10 ppm. The results of the OVA soil screening are summarized in Table 2-1, and OVA soil sampling locations are illustrated in Figure 2-1.

TABLE 2-1
Summary of Headspace Screening Results

Sample Location Number (see Figure 2-1)	Depth (feet bls)	FID Unfiltered (ppm)	FID with Filter (ppm)	FID Corrected (ppm)	Location
1	Surficial	0	0	0	NW corner of 5- by 5-foot area
2	Surficial	0	0	0	NE corner of 5- by 5-foot area
3	Surficial	0	0	0	SW corner of 5- by 5-foot area
4	Surficial	0	0	0	SE corner of 5- by 5-foot area
5	2.0	0	0	0	SW corner
6	2.0	0	0	0	SE corner
7	1.0	0	0	0	South wall, SW corner
8	1.0	0	0	0	South wall, SE corner
9	1.0	0	0	0	East wall, SE corner
10	1.0	0	0	0	West wall, SW corner
11	1.0	0	0	0	Below concrete pad, south
12	1.0	0	0	0	Below concrete pad, west
13	1.0	0	0	0	Below concrete pad, north
14	2.0	0	0	0	East, center
15	1.0	0	0	0	East wall, NE corner
16	2.0	0	0	0	
17	2.0	0	0	0	
18	1.0	0	0	0	North wall
19	1.0	0	0	0	North wall
20	1.0	0	0	0	West wall
21	4.0	0	0	0	Bottom of exc., south
22	3.0	0	0	0	
23	4.0	0	0	0	Bottom of exc., east
24	3.0	0	0	0	
25	4.0	0	0	0	Bottom of exc., north
26	3.0	0	0	0	
27	3.0	0	0	0	
28	3.0	0	0	0	
29	3.0	0	0	0	Interior wall, north
30	3.0	0	0	0	Interior wall, center
31	3.0	0	10	0	Interior wall, south

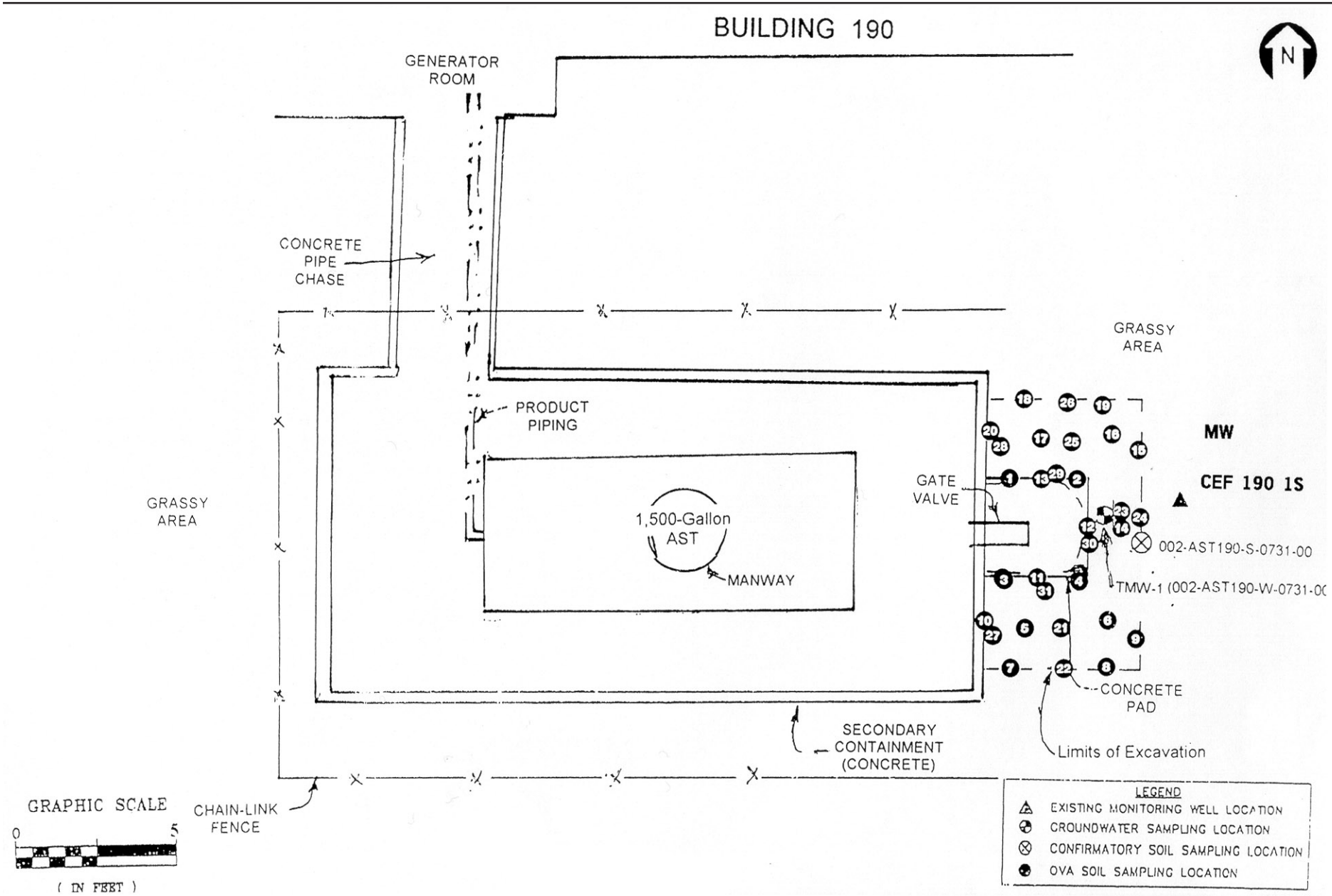


Figure 2-1
Site Map Indicating Soil and Groundwater Sampling Locations
Building 190, AST # G190
NAS Cecil Field, Jacksonville, Florida

CH2MHILL

A022000004ATL\Cecil 129.fh8

2.3.1 Soil Excavation

Soils were excavated to the water table, which was measured in an adjacent monitor well (well # CEF-190-1S). The depth to water in the monitor well was measured relative to the top of casing (TOC) using an electronic water level indicator, and was determined to be approximately 3.38 feet below land surface (bls). Soils were slightly over-excavated to a depth of 4 feet bls to ensure that all contaminated soils were excavated.

The soil was excavated using a rubber-tire backhoe and was stockpiled on top of, and covered with, 6-mil plastic sheeting pending disposal, in compliance with the requirement of Chapter 62-770.300 FAC to secure excavated soil "in a manner that prevents human exposure to contaminated soil and prevents soil exposure to precipitation that may cause surface runoff." Excavation was initiated in the apparent worst case location, as indicated by the results of a previous environmental study (ABB, November 1997), which was directly in front of the point of outfall of the gate valve (drain) located at the east end of the concrete secondary containment structure for Tank #G190. A concrete pad, measuring 4 feet in length and 3 feet in width, was encountered at a depth of approximately 3 inches below surface grade beneath the gate valve (see Appendix A, Photo Documentation,). Soil was excavated around the perimeter of the concrete pad up to the containment wall, and to the depth of the water table. Soil samples were collected from the walls and the floor of the excavation for screening by organic vapor analysis using OVA/FID soil headspace analysis procedures as described in Section 2.3, as well as by visual methodology. Excavation was continued until all OVA readings were below the target cleanup level of 10 ppm. The final area of excavation was roughly "U" shaped around the concrete pad lying below the point of outfall of the containment gate valve (drain), and measured approximately 8 feet in length (from north to south), approximately 5 feet in width (from east to west, and was a maximum of 4 feet in depth (see Figure 2-1), and generated an estimated total of 5 tons of petroleum contaminated soil for disposal offsite.

2.3.2 Soil Transportation and Disposal

The source removal activities generated an estimated total of 5.0 tons of soil requiring disposal. This soil was transported as non-hazardous waste to Kadesh, Inc. of Kingsland, Georgia, for treatment and disposal by thermal treatment/recycling. The limits of excavation are illustrated in Figure 2-1. A summary of the transportation/disposal manifest is presented in Table 2-2 and copies of the transportation/disposal manifest and waste characterization analysis can be found in Appendix B. Manifest No. 148800 includes the 5 tons of soil from tank G190 AST and 17.32 tons of soil from two other tank removal sites. A copy of the Certificate of Recycling is provided in Appendix C.

TABLE 2-2
Summary of Manifests for Soil Disposal

Date	Truck #	Company	Manifest #	Weight (pounds)	Tare (pounds)	Net (pounds)	Net (tons)
09/20/99	9900	Modlin	148800	67,140	22,500	44,640	21.87
						Total	21.87

Note: Manifest # 148800 includes approximately 5.0 tons from Building 190 and 17.32 tons from other sites.
***Manifest and Soil Disposal Ticket from Underground Utilities Contractor's, Inc. (Kedesh, Inc.) are different because the truck was weighed onsite (NAS Cecil Field) prior to leaving and at the disposal facility (Kedesh, Inc.). The two scales were different.**

The 672.37 tons of excavated soil identified in the Certificate of Treatment includes approximately 5.0 tons of soil generated by the source removal activities at Building 190, as well as approximately 667.37 tons of soil generated by source removal activities at other tank sites located at NAS Cecil Field.

2.3.3 Backfilling and Site Restoration

The material used to backfill the excavation is certified clean fill brought in from the NTFF removal project at NAS Cecil Field. The certified clean soil used to backfill the G190 AST excavation was taken from NTFF Clean Pile 1. The laboratory analytical report for Clean Pile 1 showing that the material is clean fill is presented in Appendix D. The backfill was compacted using the excavation equipment. No compaction tests were required.

Following completion of the source removal activities, the area of excavation was returned to original grade using the clean fill and hydroseeded with a mixture of brown millet, rye, bahia grass, fertilizer and mulch.

2.4 Sampling and Analysis

Soil samples were collected from the walls and floor of the excavation and screened in the field using OVA headspace analysis procedures. Following completion of the soil excavation activities, a confirmatory soil sample was collected from the area of the excavation selected as representative of the apparent worst case location for laboratory analysis. Soil sampling locations are shown in 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 horizontal limits of excavation were expanded until net headspace concentrations were below 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 source removal activities, a confirmatory soil sample was collected for laboratory analysis, as follows. Confirmatory Soil Sample #002-AST190-S-0731-00 was collected from the east wall of the excavation, at a location selected as representative of the apparent worst case location, based on the results of the OVA soil screening. The soil sample was collected from the wall of the excavation at a depth of approximately 3 feet bls, which was just above the depth of the water table. The confirmatory soil sampling location is shown in Figure 2-1.

The confirmatory soil sample was collected using stainless steel hand tools and Encore brand samplers. Samples were 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 a Navy approved laboratory for analysis by the following methods:

- EPA Method 8021BB/5035 VOCs
- EPA Method 8310 extractable organic compounds
- FL-PRO total petroleum hydrocarbons

The confirmatory soil sampling location is shown on Figure 2-1. The results of the laboratory analysis indicate no contaminant concentrations above SCTLs. The analytical results are summarized in Table 2-3. A copy of the analytical laboratory report is provided in Appendix E.

2.4.3 Collection and Laboratory Analyses of Groundwater Samples

Following completion of the source removal activities, a groundwater sample was collected from the area of the site considered as representative of the apparent worst-case location. This sample was analyzed by an approved laboratory for products in the Kerosene Analytical Group (KAG). The groundwater sampling and analysis are summarized as follows.

Following backfilling of the excavation with clean fill, a temporary well point (TMW-1) was installed, and groundwater sample #002-AST190-W-0731-00 was collected from the area of the excavation selected as representative of the apparent worst-case location. The temporary well point was constructed of 2-inch polyvinyl chloride (PVC) with 5 feet of 0.01-inch slotted well screen, and was installed such that the well screen intercepted the top of the water table, which was encountered at a depth of 3.38 feet bls. Prior to sample collection, the temporary well was purged a total of five standing volumes using a portable peristaltic pump. The groundwater sample was 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 for analysis, as follows:

- EPA Method 8021BB VOCs
- EPA Method 8310 PAHs

The results of the laboratory analysis of the groundwater samples collected indicate no contaminant concentrations above Groundwater Cleanup Target Levels (GCTLs) as specified in Chapter 62-777 FAC, Table I. The groundwater sampling location is illustrated in Figure 2-1, and the results of the laboratory analysis are summarized in Table 2-4. A copy of the analytical laboratory report is provided in Appendix F.

TABLE 2-3
Summary of KAG Analyses for Soil

Sample Location	Depth feet)	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 (123cd) Pyrene	Phenanthrene	Pyrene	Naphthalene	1- Methylnaphthalene	2- Methylnaphthalene	Benzene	Ethylbenzene	Toluene	Xylenes	MTBE
East Wall	3	002-AST190-S-0731-00	7/31/00	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 Soil Cleanup Target Levels*				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

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

TABLE 2.4
Summary of KAG Analyses for Groundwater

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 (123cd) Pyrene	Phenanthrene	Pyrene	Naphthalene	1- Methylnaphthalene	2- Methylnaphthalene	Benzene	Ethylbenzene	Toluene	Xylenes	MTBE
TMW-1	002-AST190-W-0731-00	7/31/00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	21,000	20	20	20	2100	50	480	20	2800	2800	20	2100	2100	200	200	200	100	300	400	200	500

Notes:
Values are reported in micrograms per liter (µg/L)
ND = Not Detected
*As specified in Chapter 62-777 FAC
*Please see Appendix F for detection limits

3.0 Conclusions

An estimated total of 5.0 tons of petroleum contaminated soils at Building 190 that were identified during this Source Removal have been removed and disposed of offsite. The soil was excavated to the water table, which was encountered at a depth of approximately 3.5 feet bls, and soils were then slightly overexcavated to ensure that all contaminated soil was excavated. The horizontal limits of the excavation had headspace hydrocarbon concentrations (OVA with FID) of less than 10 ppm. A soil sample collected from the area of the excavation selected as representative of the apparent worst case location was analyzed for KAG constituents by EPA Methods 8021BB, 8310 and FL PRO. The results of the laboratory analysis found that all KAG constituents were below the SCTLs, confirming that the horizontal limits were achieved. One groundwater sample was collected from a temporary well point (TMW-1) installed in the center of the area of excavation following backfilling of the excavation and analyzed for KAG compounds by EPA Methods 8021BB and 8310. The results of the laboratory analysis found that all KAG constituents were below laboratory detection limits, which were below the GCTLs set forth in Chapters 62-770 and 62-777 FAC.

Based on the results of the soil and groundwater analysis of samples collected as part of the source removal activities, the SCTLs and GCTLs have been achieved at this site, and No Further Action per Chapter 62-770 FAC is recommended.

4.0 References

ABB Environmental Services, Inc., November 1997, Confirmatory Sampling Report, Building 190, Tank G190, Base Realignment and Closure, Underground Storage Tank and Aboveground Storage Tank Grey Sites, NAS Cecil Field, Jacksonville, Florida.

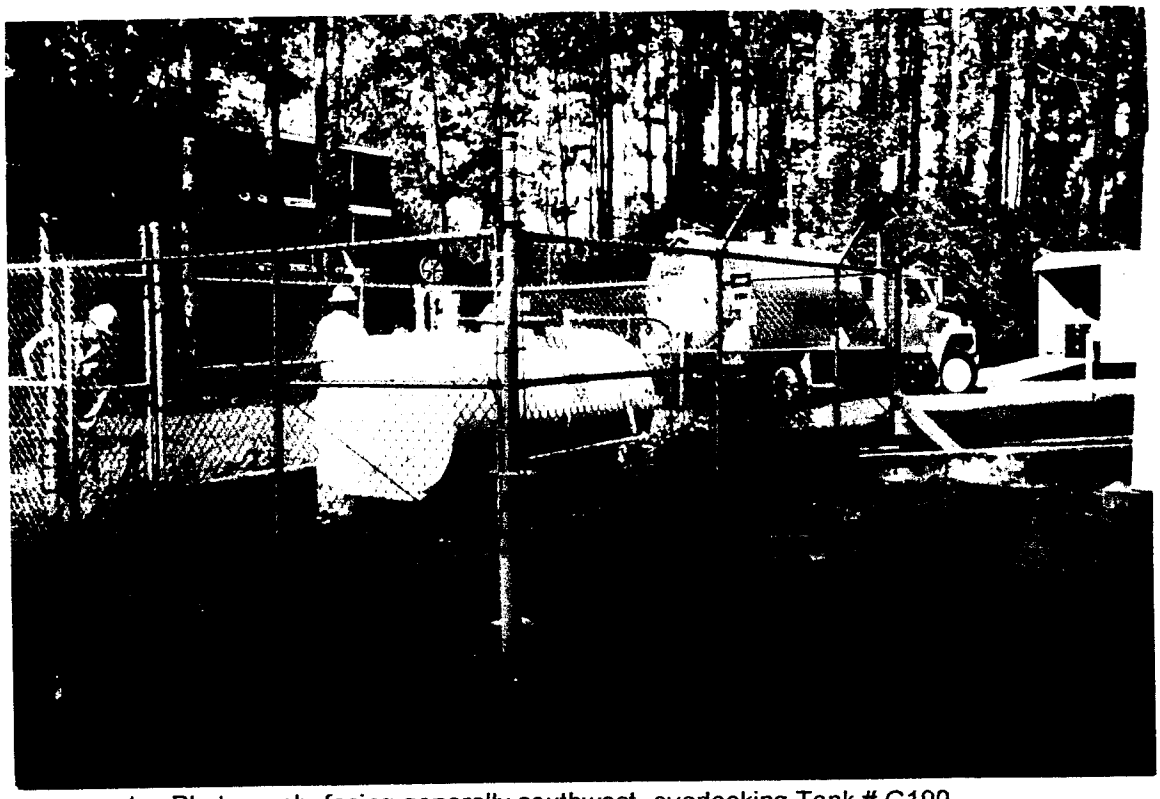
CH2MHILL Constructors, Inc., November 1998,Basewide Work Plan Revision 01, NAS Cecil Field, Jacksonville, Florida.

CH2MHILL Constructors, Inc., May 2000, Work Plan Addendum No. 5, Removal of the North Tank Fuel Farm and Removals at Various Tank Sites, NAS Cecil Field, Jacksonville, Florida.

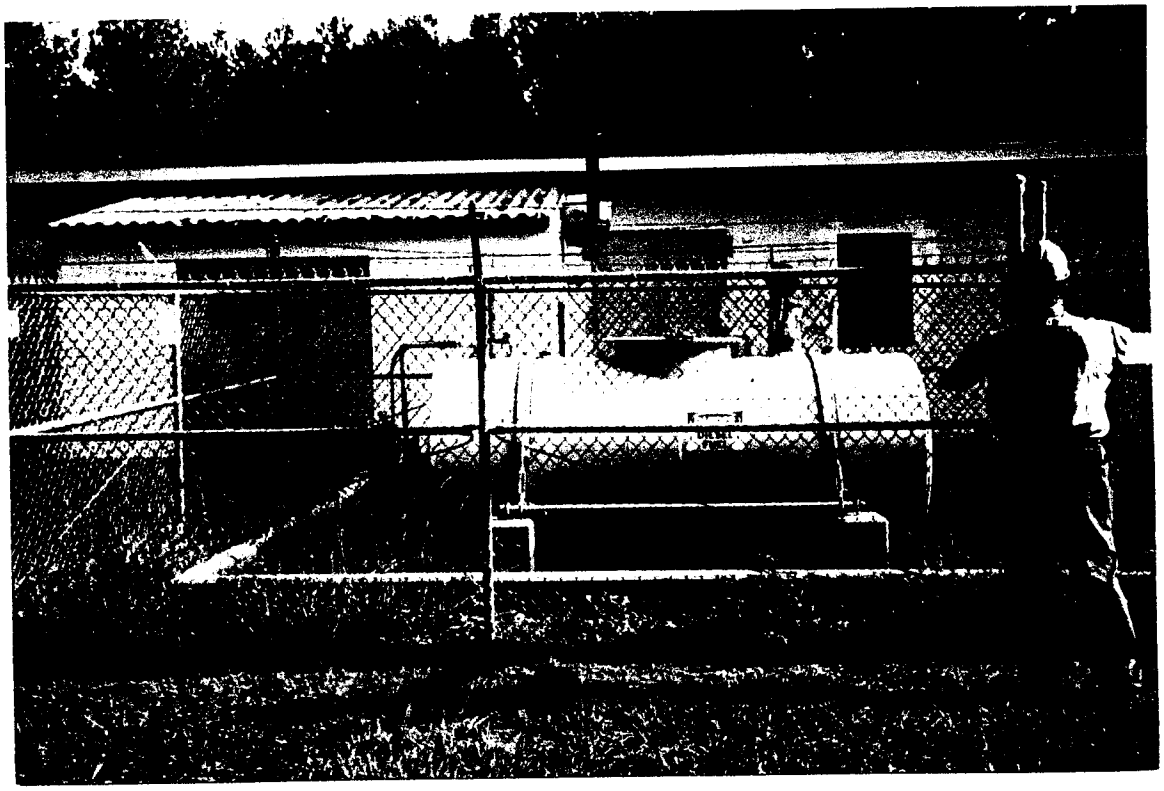
.

Appendix A

Photo Documentation

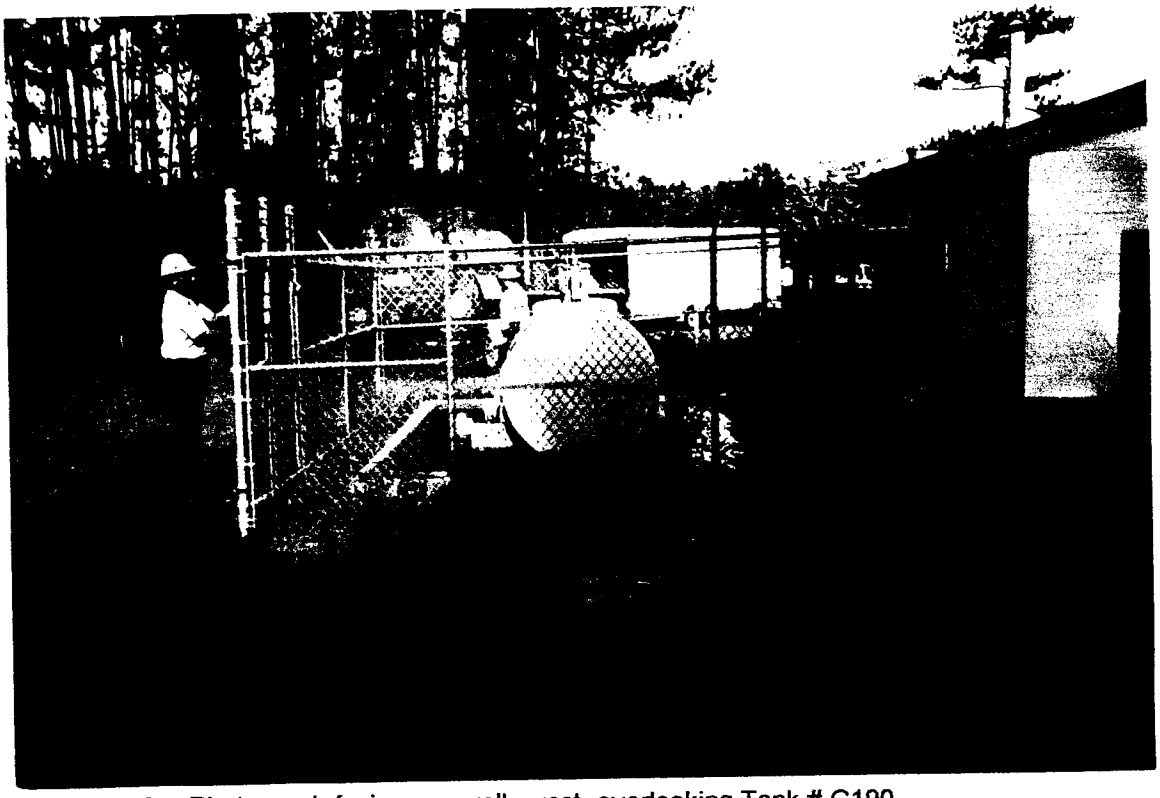


1. Photograph, facing generally southwest, overlooking Tank # G190 prior to start of field activities.

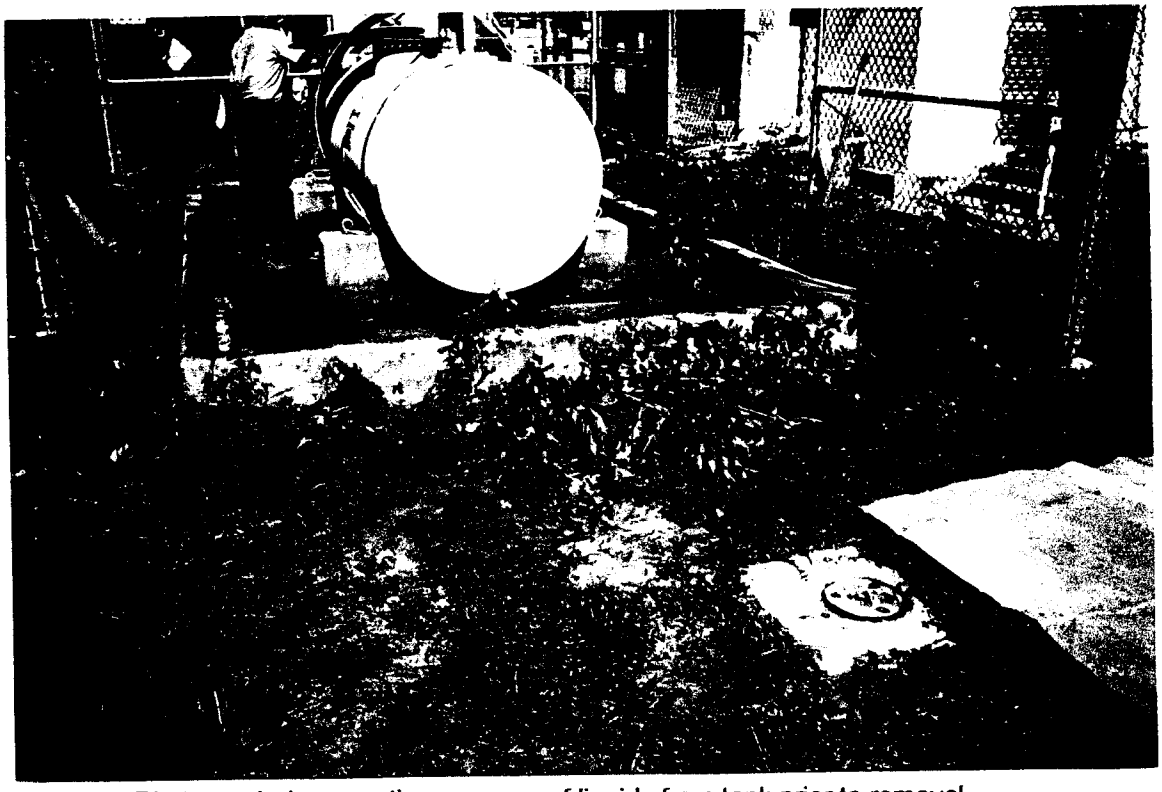


2. Photograph, facing generally north, overlooking Tank # G190 prior to start of field activities.

Photodocumentation: Source Removal, Building 190; Aboveground Storage Tank # G190
Cecil Field Naval Air Station; Facility ID # 16/8507293
Jacksonville, Duval County, Florida

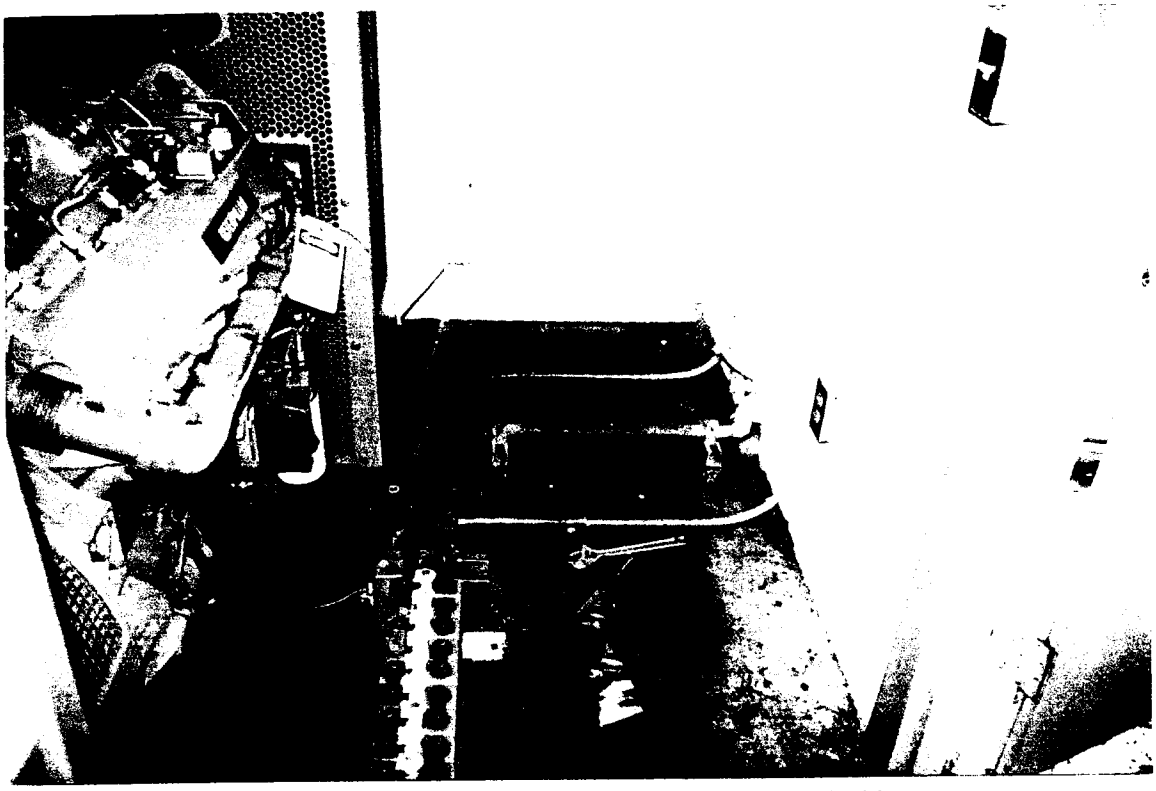


3. Photograph facing generally west, overlooking Tank # G190 prior to start of field activities.

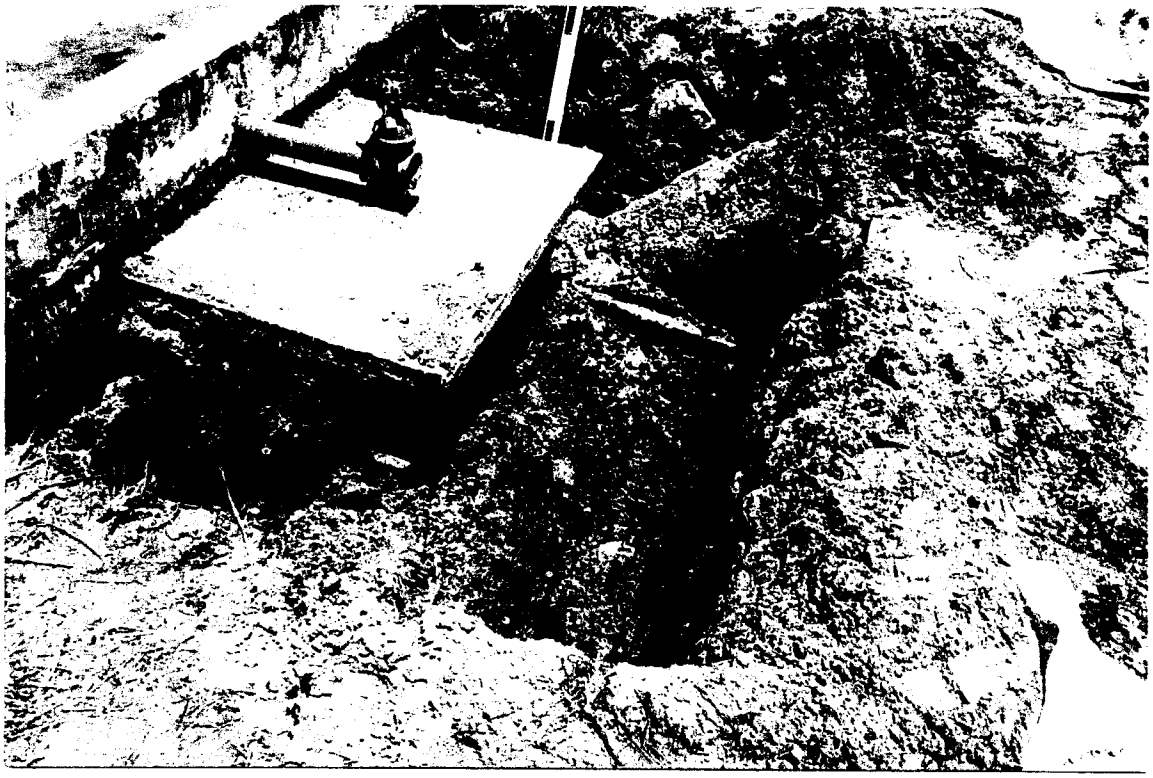


4. Photograph documenting recovery of liquids from tank prior to removal. Area to be excavated has been demarked using orange paint, and monitor well #CEF-190-1s is evident in foreground.

Photodocumentation: Source Removal, Building 190; Aboveground Storage Tank # G190
Cecil Field Naval Air Station; Facility ID # 16/8507293
Jacksonville, Duval County, Florida

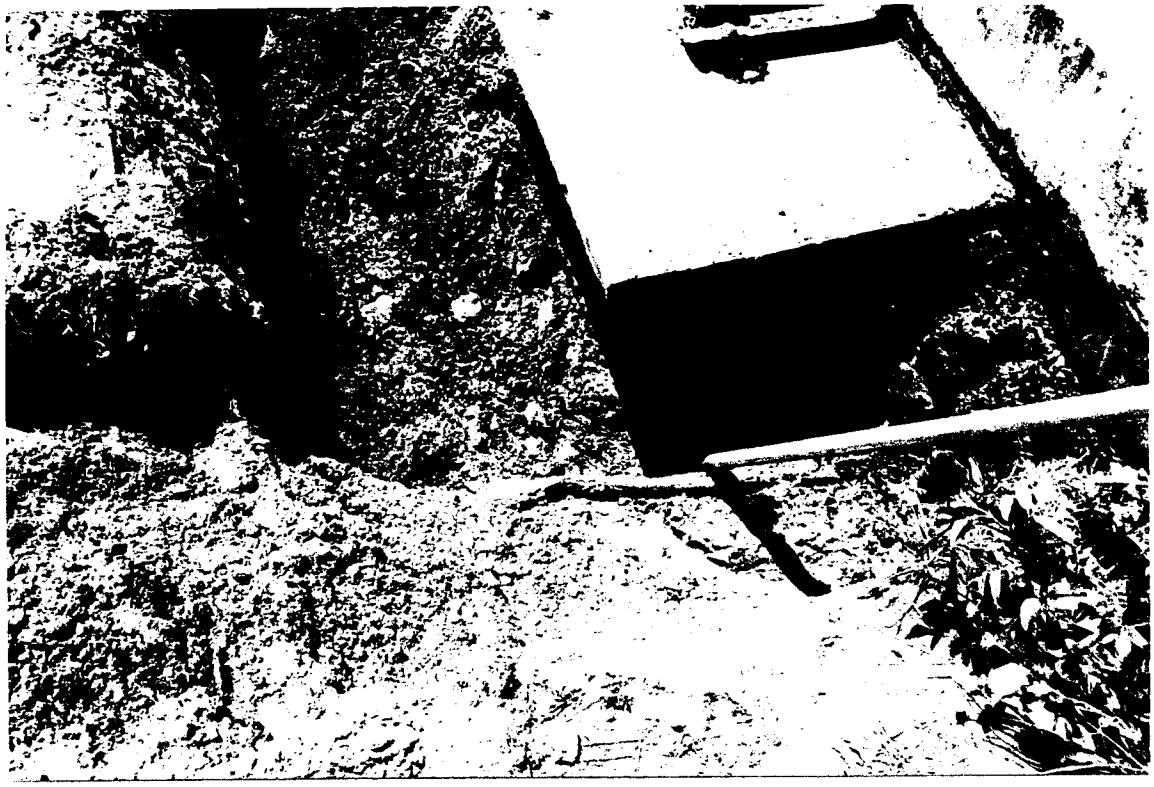


5. Photograph documenting dismantling of product piping inside emergency generator room within Building 190 and associated tank.

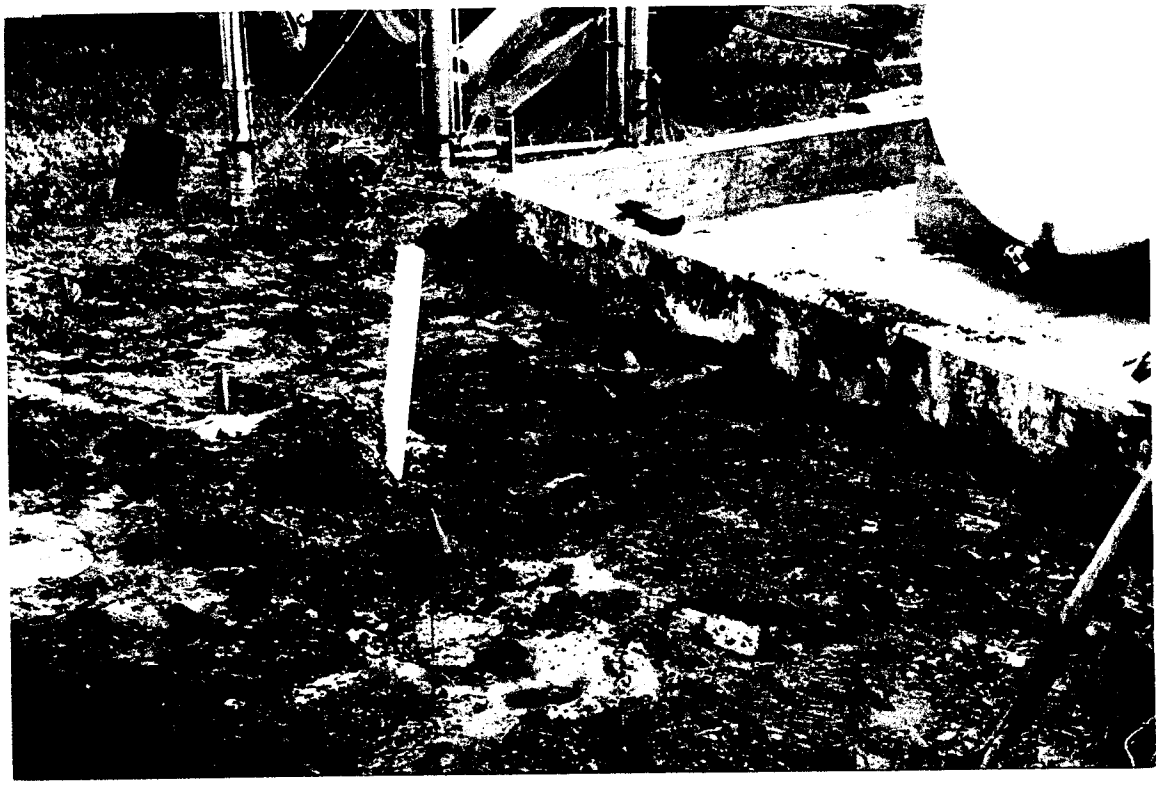


6. Photograph overlooking area of excavation around AST containment gate valve following completion of source removal activities.

Photodocumentation: Source Removal, Building 190; Aboveground Storage Tank # G190
Cecil Field Naval Air Station; Facility ID # 16/8507293
Jacksonville, Duval County, Florida



7. Photograph, facing generally south, overlooking area of excavation following completion of source removal activities.



8. Photograph overlooking temporary monitor well #TMW-1 used for collecting groundwater sample following completion of source removal and backfilling of excavation.

Photodocumentation: Source Removal, Building 190; Aboveground Storage Tank # G190
Cecil Field Naval Air Station; Facility ID # 16/8507293
Jacksonville, Duval County, Florida

Appendix B

Copies of Soil Disposal Manifests and Waste Characterization Analysis

[redacted]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N / A

Manifest Document No. 1 4 0 8 0

2. Page 1 of 0

8/30/00

Generator's Name and Mailing Address
United States Navy - N.A.S Cecil Field
6219 Authority AVE.
Jacksonville, FL 32221

4. Generator's Phone (904) 777-8850

5. Transporter 1 Company Name: MODLIN TRUCKING

6. US EPA ID Number: N / A

A. Transporter's Phone: (904) 358-2331

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address
KEDESH Inc. (SOIL RECYCLING)
1871 King AVE.
Kingsland, GA 31548

10. US EPA ID Number: 2 9 5 1 0 2 0 1 1 3 1 5

C. Facility's Phone: (912) 579-9979

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. PETROLEUM CONTAMINATED SOIL	0 0 1	D T	21.87	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
United States Navy Rep. David J. Kruzicki (Environmental MGR.)
CTO-0002 Varios Tank Removals
Building 872 x231 +190

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Emergency Service --(904) 241-2200
ERI JOB # 2316
TRUCK # 9900

Time IN 8:00 AM
Time out 10:54 AM

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: DAVID J. KRUZICKI | Signature: [signature] | Month 09 Day 20 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVID MCGUIRT | Signature: [signature] | Month 09 Day 20 Year 00

18. Transporter 2 Acknowledgement of Receipt of Materials

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

19. Discrepancy Indication Space
Cleanup Load 9-20-00

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

Printed/Typed Name: Kevin Crowl | Signature: [signature] | Month 09 Day 20 Year 00

GENERATOR → TRANSPORTER → FACILITY

ORIGINAL - RETURN TO GENERATOR

[redacted]

WEIGHMASTER 020430

Underground Utility Contractors, Inc.
5815 Highway 17 North
Kingsland, GA 31548
(912) 729-7555
(912) 882-3183

TICKET NO. 005002

12:27 09/20/00

TRUCK NO. 9900
GROSS WT. 67140 LBS TRANSPORTER Modlin
TARE WT (M) 22500 LBS GENERATOR E.R.T. Cecil Field
NET WT. 44640 LBS DRIVER [illegible]
NET WT. 22.32 TON Cleanup Load
Weighers Signature [illegible]
CUSTOMER NUMBER: 00
JOB NUMBER: 012073

TestAmerica
INCORPORATED

ANALYTICAL REPORT

INTRALABS 6580
TOMMY CARR
1909 SOUTHAMPTON RD.
JACKSONVILLE, FL 32207

Project: #149152
Project Name: N.A.S. CECIL FIELD VARIO
Sampler:

Lab Number: 00-A105727
Sample ID: 002-KAG1-S-0727-00
Sample Type: Solid waste
Site ID:

Date Collected: 7/27/00
Time Collected: 12:40
Date Received: 7/28/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
TRPH	ND	mg/kg	11.9	5.0	1	8/ 1/00	1:51	K.Phelps	FPRO	7479
PESTICIDE/PCB's/HERBICIDES										
Aroclor 1016	ND	mg/kg	0.0238	0.0200	1	8/ 7/00	1:09	M. Cauthen	8082	1544
Aroclor 1221	ND	mg/kg	0.0238	0.0200	1	8/ 7/00	1:09	M. Cauthen	8082	1544
Aroclor 1232	ND	mg/kg	0.0238	0.0200	1	8/ 7/00	1:09	M. Cauthen	8082	1544
Aroclor 1242	ND	mg/kg	0.0238	0.0200	1	8/ 7/00	1:09	M. Cauthen	8082	1544
Aroclor 1248	ND	mg/kg	0.0238	0.0200	1	8/ 7/00	1:09	M. Cauthen	8082	1544
Aroclor 1254	ND	mg/kg	0.0238	0.0200	1	8/ 7/00	1:09	M. Cauthen	8082	1544
Aroclor 1260	ND	mg/kg	0.0238	0.0200	1	8/ 7/00	1:09	M. Cauthen	8082	1544
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	84.	%			1	7/31/00	8:39	J. Rudden	CLP	5915
Reactive Cyanide	ND	mg/kg	2.0	2.0	1	8/10/00	12:50	CHollingsw	SW-846	2390
Reactive Sulfide	ND	mg/kg	20.0	20.0	1	8/10/00	12:50	CHollingsw	SW-846	2390
Corrosivity	NOT CORROSIVE					8/ 6/00	5:00	J.Tyree	1110	1301
Ignitability	NOT IGNITABLE UP TO 200F					8/ 8/00	11:11	McFarland	1010M	1548
	Comment					8/14/00		P.Lane		6130
	Comment					8/10/00		P.Lane		4466
	Comment					8/14/00		P.Lane		6220
	Comment					8/11/00		P.Lane		5317
	Comment					8/11/00		P.Lane		5314
	Comment					8/16/00		P.Lane		8018
	Comment					8/11/00		P.Lane		5315
	Comment					8/10/00		P.Lane		4470

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A105727
Sample ID: 002-KAG1-S-0727-00

TCLP RESULTS

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Arsenic	< 0.100	mg/l	5.0	92	8/10/00	6010B
Barium	< 1.00	mg/l	100	90	8/10/00	6010B
Cadmium	< 0.100	mg/l	1.0	84	8/10/00	6010B
Chromium	< 0.500	mg/l	5.0	82	8/10/00	6010B
Lead	< 0.500	mg/l	5.0	85	8/10/00	6010B
Mercury	< 0.0100	mg/l	0.20	102	8/10/00	7470A
Selenium	< 0.100	mg/l	1.0	100	8/10/00	6010B
Silver	< 0.100	mg/l	5.0	90	8/10/00	6010B
Benzene	< 0.0200	mg/l	0.5	106	8/10/00	8260
Carbon tetrachloride	< 0.0200	mg/l	0.5	102	8/10/00	8260
Chlorobenzene	< 0.0200	mg/l	100	104	8/10/00	8260
Chloroform	< 0.0200	mg/l	6.0	118	8/10/00	8260
1,2-Dichloroethane	< 0.0200	mg/l	0.5	116	8/10/00	8260
1,1-Dichloroethene	< 0.0200	mg/l	0.7	104	8/10/00	8260
Methylethylketone	< 0.100	mg/l	200	109	8/10/00	8260
Tetrachloroethene	< 0.0200	mg/l	0.7	96	8/10/00	8260
Trichloroethene	< 0.0200	mg/l	0.5	96	8/10/00	8260
Vinyl Chloride	< 0.0200	mg/l	0.2	106	8/10/00	8260
Cresols	< 0.0100	mg/l	200	87	8/10/00	8270
1,4-Dichlorobenzene	< 0.0100	mg/l	7.5	84	8/10/00	8270
2,4-Dinitrotoluene	< 0.0100	mg/l	0.13	94	8/10/00	8270
Hexachlorobenzene	< 0.0100	mg/l	0.13	60	8/10/00	8270
Hexchlor-1,3-butadien	< 0.0100	mg/l	0.5	88	8/10/00	8270
Hexachloroethane	< 0.0100	mg/l	3.0	82	8/10/00	8270
Nitrobenzene	< 0.0100	mg/l	2.0	86	8/10/00	8270
Pentachlorophenol	< 0.0100	mg/l	100	92	8/10/00	8270
Pyridine	< 0.0100	mg/l	5.0	90	8/10/00	8270
2,4,5-Trichlorophenol	< 0.0100	mg/l	400	88	8/10/00	8270
2,4,6-Trichlorophenol	< 0.0100	mg/l	2.0	86	8/10/00	8270
Chlordane	< 0.00300	mg/l	0.030	114	8/11/00	8081A
2,4-D	< 0.100	mg/l	10.0	133	8/10/00	8151A
Endrin	< 0.00050	mg/l	0.02	102	8/11/00	8081A
Heptachlor	< 0.00080	mg/l	0.008	86	8/11/00	8081A
Lindane	< 0.00050	mg/l	0.4	102	8/11/00	8081A

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A105727
Sample ID: 002-KAG1-S-0727-00

TCLP RESULTS

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
Methoxychlor	< 0.00050	mg/l	10.0	102	8/11/00	8081A
Toxaphene	< 0.010	mg/l	0.50	98	8/11/00	8081A
Silvex	< 0.0100	mg/l	1.0	76	8/10/00	8151A
Heptachlor epoxide	< 0.00080	mg/l	0.008	95	8/11/00	8081A
TCLP Extraction	Initiated				8/ 8/00	1311
Zero Headspace Extraction	Initiated				8/ 8/00	1311

ND - Not detected at the report limit.

Flash point/ignitability reported to the nearest 10 deg F.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PCB's	30.4 gm	10.0 ml	8/ 4/00	J. Rudden	3550

Surrogate	% Recovery	Target Range
surr-o-Terphenyl	104.	62. - 109.
Fla Pro Surr., C-35 hydrocarbon	100.	60. - 118.
VOA Surrogate, 1,2-Dichloroethane, d4	141. #	60. - 138.
VOA Surrogate, Toluene d8	111.	80. - 123.
VOA Surrogate, 4-Bromofluorobenzene	107.	73. - 122.
surr-Nitrobenzene-d5	82.	16. - 120.
surr-2-Fluorobiphenyl	78.	10. - 136.
surr-Terphenyl d14	70.	10. - 119.
surr-Phenol d5	42.	10. - 69.
surr-2-Fluorophenol	42.	10. - 148.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A105727
Sample ID: 002-KAG1-S-0727-00

Surrogate	% Recovery	Target Range
surr-2,4,6-Tribromophenol	100.	11. - 144.
pest surr-TCMX	22. #	23. - 150.
pcb surr-TCMX	204. #	10. - 179.
surr-Dibutylchlorendate	10.	10. - 120.
pcb surr-DCB	202. #	15. - 130.
surr-DCPAA	52.	10. - 161.

All metal and organic results have been corrected for dry weight.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Glenn L. Norton Report Date: 8/16/00

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

CHAIN-OF-CUSTODY

149152-A page 1 of 3

115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 : Fax No (770) 604-9282

6700 9196 201731

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		LEVEL III

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)	1311/8260B TCLP volatiles	1311/8270C TCLP semivolatiles	1311/8081A/8151A TCLP Pesticides/Herbicides	FA-PRO	FAA 8082 PCB	1311/6010/7470 TCLP Metals	Reactivity	Corrosivity	Ignitability	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB I
1	002-GAG1-S-0727-00	Waste Characterization	S	7-27-00		C	14	X	X	X	X	X	X	X	X	X	Comp		1052
2	002-KAG1-S-0727-00	Waste characterization	S	7-27-00	12:40	C	14	X	X	X	X	X	X	X	X	X	Comp		1057
3																		Sample containers sealed in "Ziplock" type bags and placed on wet ice for transport (PM)	
4																			
5																			
6																		Samples Hand Delivered to Testing Inc for Expedite (PM)	
7																			
8																			
9																			
10																			

Account #

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT

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

COURIER AND SHIPPING NUMBER: Quote # 0614001081 99.

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Richard Moriarity	7/27/00	16:30	Printed Name and Signature: J Parson	7-27-00	16
Printed Name and Signature:	7-27-00	17:00	Printed Name and Signature: FEDEX	7-27-00	10

Form CC1001, Rev 02/00

Ex 11-2

156500

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Document No.

2. Page 1 of 10/3/00

3. Generator's Name and Mailing Address
United States Navy - N.A.S Cecil Field
6219 Authority AVE.
Jacksonville, FL 32221

4. Generator's Phone (904) 777-8850

5. Transporter 1 Company Name: ENVIRONMENTAL RECOVERY INC

6. US EPA ID Number: FLD092718576

A. Transporter's Phone: (800)359-3740

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
INDUSTRIAL WATER SERVICES, INC
1640 TALLEYRAND AVENUE
JACKSONVILLE, FL 32206

10. US EPA ID Number: FLD981928484

C. Facility's Phone: (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: DAVID J. KRUZICKI, ENV MGR — Signature — Month Day Year: 10 03 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: ERIC TIDSWELL — Signature — Month Day Year: 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: Jeff Bush — Signature — Month Day Year: 10 4 00

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

Ex 11-61

[redacted]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Document No. 151400

2. Page 1 of 9/22/00

3. Generator's Name and Mailing Address
United States Navy - N.A.S Cecil Field
6219 Authority AVE.
Jacksonville, FL 32221

4. Generator's Phone (904) 777-8850

5. Transporter 1 Company Name: ENVIRONMENTAL RECOVERY INC

6. US EPA ID Number: FLD092718576

A. Transporter's Phone: (800)359-3740

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
INDUSTRIAL WATER SERVICES, INC
1640 TALLEYRAND AVENUE
JACKSONVILLE, FL 32206

10. US EPA ID Number: FLD981928484

C. Facility's Phone: (904)354-0372

GENERATOR

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. OILY WASTE WATER	001	TT	2800	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
IWS MPA # J020473
CONTENTS OF OWS(4) AT ~~[illegible]~~ 80-OW2, 271SE-OW, 271S-OW, 274-OW

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CONTACT: Services, Inc. -- 24 Hour Emergency Service -- (800)-999-1234
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: DAVID J. KRUZICKI, ENV. MGR — Signature — Month/Day/Year 09/26/00

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ERIC TIDWELL — Signature — Month/Day/Year 09/29/00

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

FACILITY

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: Jon E Ross — Signature — Month/Day/Year 09/29/00

ORIGINAL - RETURN TO GENERATOR

[redacted]

Ex 11-3

156800

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Document No.:

2. Page 1 of: 10/3/00

3. Generator's Name and Mailing Address
United States Navy - N.A.S Cecil Field
6219 Authority AVE.
Jacksonville, FL 32221

4. Generator's Phone (904) 777-8850

5. Transporter 1 Company Name: ENVIRONMENTAL RECOVERY INC

6. US EPA ID Number: FLD092718576

A. Transporter's Phone: (800) 359-3740

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address
INDUSTRIAL WATER SERVICES, INC
1640 TALLEYRAND AVENUE
JACKSONVILLE, FL 32206

10. US EPA ID Number: FLD981928484

C. Facility's Phone: (904) 354-0372

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. PETROLEUM CONTACT WATER	8	DM	400	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
IWS MPA J020475
CONTENTS FROM BUILDING # 271 & 180

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
CONTACT: Services, Inc. -- 24 Hour Emergency Service -- (800)-999-1234
JOB # 2316
This PCW does not contain hazardous constituents above those found in the source of the PCW

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: DAVID J. KRUZICKI, ENV MGR
Signature:
Month 10 Day 03 Year 00

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: John J. Ahern
Signature:
Month 10 Day 06 Year 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: Jon LeRoss
Signature:
Month 10 Day 06 Year 00

GENERATOR
TRANSPORTER
FACILITY

24-HOUR
Emergency Contact Telephone Number
(SEE BOX 15)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. FL5 1 7 0 9 2 2 4 7 4 0 0 1 1 0
Manifest Document No. 10029
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PWC 549
Code 330
US Navy NAS Cecil Field
6219 Authority Ave
Jacksonville, Fl. 32215
Attn: Jay Daniel (330)

4. Generator's Phone (352) 373-6066

A. State Manifest Document Number 00110
B. State Generator's ID FL5170922474

5. Transporter 1 Company Name
Perma-Fix of Florida, Inc.
6. US EPA ID Number FLD980711071

7. Transporter 2 Company Name
8. US EPA ID Number

C. State Transporter's ID FLD980711071
D. Transporter's Phone (352) 373-6066
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
PERMA-FIX OF FLORIDA, INC.
1940 NW 67TH PLACE
GAINESVILLE, FL 32653
10. US EPA ID Number FLD980711071

G. State Facility's ID FLD 980 711 071
H. Facility's Phone 352-373-6066

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a.	X	RQ, Waste Flammable Liquids, N.O.S. (Benzene) 3, UN1993, PG II (RQ)					
b.			007	DM	003.85	G	D001/D018
c.							
d.							

GENERATOR

J. Additional Descriptions for Materials Listed Above
11a PG II 32627 - 32634-125

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Mail Manifest To: Environmental Recovery Inc
PO Box 330869
Jacksonville FL 32233
Attn: Tom Thompson - KRI Job #2316
B204 MMel
Solvent/mc 61
INFOTRAC AT 1-800-535-5053
Perma-Fix of Florida must be named as Registrant. (PF)

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.
Printed/Typed Name: Mitchell B. McPherson
Signature: MBMcPherson
Month Day Year: 11/02/00

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gilbert Horan
Signature: Gilbert Horan
Month Day Year: 11 02 00

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year: 11 02 00

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name
Signature
Month Day Year: 11/03/00

ORIGINAL - RETURN TO GENERATOR

#45

TestAmerica
INCORPORATED

ANALYTICAL REPORT

INTRALABS 6580
TOMMY CARR
1909 SOUTHAMPTON RD.
JACKSONVILLE, FL 32207

Lab Number: 00-A120434
Sample ID: 002-KAG2-L-0823-00
Sample Type: Liquid
Site ID:

Date Collected: 8/23/00
Time Collected: 11:50
Date Received: 8/25/00
Time Received: 9:00

Project: 149152-47
Project Name: NAS CECIL FIELD-WASTE CH
Sampler:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
TRPH	1080000	mg/kg	250000	5.0	200	8/30/00	12:16	K.Phelps	FPRO	6961
EXTRACTABLE ORGANICS										
Acenaphthene	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
Acenaphthylene	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
Anthracene	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
Benzo(a)anthracene	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
Benzo(a)pyrene	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
Benzo(b)fluoranthene	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
Benzo(g,h,i)perylene	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
Benzo(k)fluoranthene	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
4-Bromophenylphenylether	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
Butylbenzylphthalate	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
Carbazole	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
4-Chloro-3-methylphenol	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
4-Chloroaniline	ND	mg/kg	1000	0.330	10	9/10/00	22:37	B.Davis	8270C	6169
bis(2-Chloroethoxy)methane	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
bis(2-Chloroethyl)ether	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
bis(2-Chloroisopropyl)ether	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
2-Chloronaphthalene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
2-Chlorophenol	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
4-Chlorophenylphenylether	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Chrysene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Dibenzofuran	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Dibenz(a,h)anthracene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A120434
Sample ID: 002-KAG2-L-0823-00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2-Dichlorobenzene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
1,3-Dichlorobenzene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
1,4-Dichlorobenzene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
3,3'-Dichlorobenzidine	ND	mg/kg	1000	0.666	10	9/10/00	22:37	B.Davis	8270C	6169
2,4-Dichlorophenol	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Diethylphthalate	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
2,4-Dimethylphenol	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Dimethylphthalate	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Di-n-butylphthalate	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
4,6-Dinitro-2-methylphenol	ND	mg/kg	1000	0.830	10	9/10/00	22:37	B.Davis	8270C	6169
2,4-Dinitrophenol	ND	mg/kg	1000	0.830	10	9/10/00	22:37	B.Davis	8270C	6169
2,4-dinitrotoluene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
2,6-Dinitrotoluene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Di-n-octylphthalate	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Fluoranthene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Fluorene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Hexachlorobenzene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Hexachlorobutadiene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Hexachlorocyclopentadiene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Hexachloroethane	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Indeno(1,2,3-cd)pyrene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Isophorone	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
2-Methylnaphthalene	3900	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
2-Methylphenol	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
m,p-Methylphenol	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Naphthalene	1200	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
2-Nitroaniline	ND	mg/kg	1000	0.830	10	9/10/00	22:37	B.Davis	8270C	6169
3-Nitroaniline	ND	mg/kg	1000	0.830	10	9/10/00	22:37	B.Davis	8270C	6169
4-Nitroaniline	ND	mg/kg	1000	0.830	10	9/10/00	22:37	B.Davis	8270C	6169
Nitrobenzene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
2-Nitrophenol	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
4-Nitrophenol	ND	mg/kg	1000	0.830	10	9/10/00	22:37	B.Davis	8270C	6169
N-nitrosodi-n-propylamine	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
N-nitrosodiphenylamine	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A120434
Sample ID: 002-KAG2-L-0823-00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Pentachlorophenol	ND	mg/kg	1000	0.830	10	9/10/00	22:37	B.Davis	8270C	6169
Phenanthrene	700.	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Phenol	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Pyrene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
Bis(2-ethylhexyl)phthalate	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
1,2,4-Trichlorobenzene	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
2,4,5-Trichlorophenol	ND	mg/kg	1000	0.830	10	9/10/00	22:37	B.Davis	8270C	6169
2,4,6-Trichlorophenol	ND	mg/kg	1000	0.333	10	9/10/00	22:37	B.Davis	8270C	6169
VOLATILE ORGANICS										
Acetone	ND	mg/kg	500.0	0.0100	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Benzene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Bromobenzene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Bromochloromethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Bromoform	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Bromomethane	ND	mg/kg	20.00	0.0100	10000	9/ 1/00	14:11	R.Ward	8260B	4097
2-Butanone	ND	mg/kg	500.0	0.0100	10000	9/ 1/00	14:11	R.Ward	8260B	4097
n-Butylbenzene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
sec-Butylbenzene	181.0	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
t-Butylbenzene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Carbon disulfide	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Carbon tetrachloride	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Chlorobenzene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Chloroethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
2-Chloroethylvinylether	ND	mg/kg	20.00	0.0100	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Chloroform	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Chloromethane	ND	mg/kg	20.00	0.0100	10000	9/ 1/00	14:11	R.Ward	8260B	4097
2-Chlorotoluene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
4-Chlorotoluene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,2-Dibromo-3-chloropropane	ND	mg/kg	100.0	0.0100	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Dibromochloromethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,2-Dibromoethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Dibromomethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,2-Dichlorobenzene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A120434
Sample ID: 002-KAG2-L-0823-00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,3-Dichlorobenzene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,4-Dichlorobenzene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Dichlorodifluoromethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,1-Dichloroethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,2-Dichloroethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,1-Dichloroethene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
cis-1,2-Dichloroethene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
trans-1,2-Dichloroethene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,2-Dichloropropane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,3-Dichloropropane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
2,2-Dichloropropane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,1-Dichloropropene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
cis-1,3-Dichloropropene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
trans-1,3-Dichloropropene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Ethylbenzene	182.0	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Hexachlorobutadiene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
2-Hexanone	ND	mg/kg	100.0	0.0100	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Isopropylbenzene	98.00	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
4-Isopropyltoluene	161.0	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
4-Methyl-2-pentanone	ND	mg/kg	100.0	0.0100	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Methylene chloride	ND	mg/kg	50.00	0.0100	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Naphthalene	726.0	mg/kg	50.00	0.0050	10000	9/ 1/00	14:11	R.Ward	8260B	4097
n-Propylbenzene	215.0	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Styrene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,1,1,2-Tetrachloroethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,1,2,2-Tetrachloroethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Tetrachloroethene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Toluene	165.0	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,2,3-Trichlorobenzene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,2,4-Trichlorobenzene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,1,1-Trichloroethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,1,2-Trichloroethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Trichloroethene	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,2,3-Trichloropropane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097

Sample report continued . . .

TestAmerica INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A120434
Sample ID: 002-KAG2-L-0823-00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2,4-Trimethylbenzene	1620.	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
1,3,5-Trimethylbenzene	460.0	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Vinyl chloride	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Xylenes, Total	1203.	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Bromodichloromethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
Trichlorofluoromethane	ND	mg/kg	20.00	0.0020	10000	9/ 1/00	14:11	R.Ward	8260B	4097
PESTICIDE/PCB's/HERBICIDES										
2,4-D	ND	mg/kg	1.000	0.1670	1	9/ 3/00	7:57	A.Hunt	8151A	106
2,4,5-T	ND	mg/kg	0.100	0.017	1	9/ 3/00	7:57	A.Hunt	8151A	106
2,4,5-TP (Silvex)	ND	mg/kg	0.1000	0.0170	1	9/ 3/00	7:57	A.Hunt	8151A	106
Dalapon	ND	mg/kg	2.00	0.333	1	9/ 3/00	7:57	A.Hunt	8151A	106
2,4-DB	ND	mg/kg	1.00	0.167	1	9/ 3/00	7:57	A.Hunt	8151A	106
Dicamba	ND	mg/kg	0.100	0.0170	1	9/ 3/00	7:57	A.Hunt	8151A	106
Dichloroprop	ND	mg/kg	1.00	0.167	1	9/ 3/00	7:57	A.Hunt	8151A	106
Dinoseb	ND	mg/kg	0.5000	0.0830	1	9/ 3/00	7:57	A.Hunt	8151A	106
MCPA	ND	mg/kg	100.	16.7	1	9/ 3/00	7:57	A.Hunt	8151A	106
MCPP	ND	mg/kg	100.	16.7	1	9/ 3/00	7:57	A.Hunt	8151A	106
Pentachlorophenol	ND	mg/kg	0.1000	0.0330	1	9/ 3/00	7:57	A.Hunt	8151A	106
4-Nitrophenol	ND	mg/kg	0.1000	0.0010	1	9/ 3/00	7:57	A.Hunt	8151A	106
Aldrin	ND	mg/kg	0.0500	0.00167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Aroclor 1016	ND	mg/kg	0.5455	0.0200	1	9/ 1/00	18:01	R. Hunt	8082	7025
Aroclor 1221	ND	mg/kg	0.5455	0.0200	1	9/ 1/00	18:01	R. Hunt	8082	7025
Aroclor 1232	ND	mg/kg	0.5455	0.0200	1	9/ 1/00	18:01	R. Hunt	8082	7025
Aroclor 1242	ND	mg/kg	0.5455	0.0200	1	9/ 1/00	18:01	R. Hunt	8082	7025
Aroclor 1248	ND	mg/kg	0.5455	0.0200	1	9/ 1/00	18:01	R. Hunt	8082	7025
Aroclor 1254	ND	mg/kg	0.5455	0.0200	1	9/ 1/00	18:01	R. Hunt	8082	7025
Aroclor 1260	ND	mg/kg	0.5455	0.0200	1	9/ 1/00	18:01	R. Hunt	8082	7025
a-BHC	ND	mg/kg	0.0500	0.00167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
b-BHC	ND	mg/kg	0.0500	0.00167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
d-BHC	ND	mg/kg	0.0500	0.00167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
g-BHC, Lindane	ND	mg/kg	0.0500	0.00167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
4,4'-DDD	ND	mg/kg	0.100	0.00333	1	9/ 1/00	3:11	A.Hunt	8081A	6239
4,4'-DDE	ND	mg/kg	0.100	0.00333	1	9/ 1/00	3:11	A.Hunt	8081A	6239

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A120434
Sample ID: 002-KAG2-L-0823-00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
4,4'DDT	ND	mg/kg	0.100	0.00333	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Dieldrin	ND	mg/kg	0.100	0.00333	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Endosulfan I	ND	mg/kg	0.0500	0.00167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Endosulfan II	ND	mg/kg	0.100	0.00333	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Endosulfan sulfate	ND	mg/kg	0.100	0.00333	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Endrin	ND	mg/kg	0.100	0.00333	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Endrin aldehyde	ND	mg/kg	0.100	0.00333	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Endrin Ketone	ND	mg/kg	0.100	0.00333	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Heptachlor	ND	mg/kg	0.0500	0.00167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Heptachlor epoxide	ND	mg/kg	0.0500	0.00167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Methoxychlor	ND	mg/kg	0.500	0.0167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
Toxaphene	ND	mg/kg	5.00	0.167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
alpha-Chlordane	ND	mg/kg	0.0500	0.00167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
gamma-Chlordane	ND	mg/kg	0.0500	0.00167	1	9/ 1/00	3:11	A.Hunt	8081A	6239
METALS										
Aluminum	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Antimony	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Arsenic	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Barium	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Beryllium	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Cadmium	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Calcium	113.	mg/kg	5.00	5.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Chromium	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Cobalt	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Copper	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Iron	ND	mg/kg	10.0	10.0	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Lead	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Magnesium	ND	mg/kg	5.00	5.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Manganese	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Mercury	ND	mg/kg	0.100	0.100	1	9/ 8/00	13:41	R. Kelley	7471	4102
Nickel	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Potassium	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Selenium	2.40	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A120434
Sample ID: 002-KAG2-L-0823-00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Silver	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Sodium	ND	mg/kg	10.0	10.0	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Thallium	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Vanadium	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
Zinc	ND	mg/kg	1.00	1.00	1	9/ 8/00	13:41	R. Kelley	6010B	4102
GENERAL CHEMISTRY PARAMETERS										
Cyanide	ND	mg/kg	2.00	2.00	1	9/ 5/00	16:00	CHollingsw	9012A	9015
Flash Point, Closed Cup	FLASHED AT 180F					9/ 6/00	12:00	S. Overton	1010	1357
	Comment					9/ 7/00		P.Lane		2358
	Comment					9/ 9/00		P.Lane		3310
	Comment					9/11/00		P.Lane		4196
	Comment					9/13/00		P.Lane		5731
	Comment					9/ 7/00		P.Lane		2351
	Comment					9/ 9/00		P.Lane		3308
	Comment					9/ 7/00		P.Lane		2354
	Comment					9/ 7/00		P.Lane		2355
pH	6.60	pH units			1	9/ 7/00	13:20	K. Stewart	9045	4099

ND = Not detected at the report limit.

Flash point/ignitability reported to the nearest 10 deg F.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
BNA's	1.00 gm	10.0 ml	8/28/00	D.Yeager	3550
OC Pest	1.00 gm	10.0 ml	8/28/00	D.Yeager	3550
Herbicides	5. gm	10.0 ml	8/29/00	J. Rudden	8151

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A120434
Sample ID: 002-KAG2-L-0823-00

Surrogate	% Recovery	Target Range
surr-1,2-Dichloroethane, d4	73.	50. - 140.
surr-Toluene d8	98.	73. - 139.
surr-4-Bromofluorobenzene	76.	62. - 131.
surr-Dibromofluoromethane	86.	64. - 145.
pest surr-TCMX	28.	23. - 150.
pest surr-TCMX	72.	43. - 136.
pest surr-DCB	15. #	32. - 194.
surr-DCPAA	134.	10. - 161.

= Recovery outside Laboratory historical limits.

All results reported on a wet weight basis.

FLA PRO surrogates were diluted out due to sample matrix.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Glenn L. Norton Report Date: 9/13/00

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

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

Hill Co[illegible]ors, Inc.

205320

CHAIN-[illegible] CUSTODY RECORD

6580

149152-47 page 2 of 2

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.)
[illegible]ecil Field . 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
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.)
Waste Characterization - Diesel Rinsate	0002		Bill Canelos, CCI/JAJES	6219 Authority Road, Jacksonville, FL 32221 phone (904 777-4812 fax 904-777-4262
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.)
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)	8260B	TCLP Volatile 8270	TCLP Semi-Volatile	8081 TCLP Pesticides	8151 TCLP Herbicides	PCB's	TPH-GRO	TPH-DRO	Cyanide	pH Hydroxide	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB I
002-KAG2-L-0823-00	Waste characterization Diesel Rinsate	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 (pH<2)
1 x 500 ml poly NaOH (Cyanide)

Sample containers Sea[illegible] Ziplock type bags [illegible] placed on wet ice for Transport (Ta[illegible]

Samples Hand-Delivere[illegible] To Test[illegible], Jax B[illegible]

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT

ER(S) AND COMPANY (please print)

ard Moriarity, Environmental Science Associates, Inc.

COURIER AND SHIPPING NUMBER

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

Appendix C

Certificate of Treatment

Kedesh, Inc.

Soil Recycling

11122 Waycross Hwy.
Screven, GA 31560
Tel: (912) 579-9979 • Fax: (912)

CERTIFICATE OF TREATMENT

Under the jurisdiction of the State of Georgia, granted by Permit No. 2951-020-12361, Kedesh, Inc. does, hereby, certify that the Non-Hazardous Petroleum Contaminated Soils received from:

GENERATOR

NAS Cecil Field
6219 Authority Ave.
Jacksonville, FL

JOB LOCATION

Project CTO - 0002

AGENT FOR GENERATOR: Environmental Recovery, Inc. - P.O. #2316

DATE (S) RECEIVED: 18,19,20,28-September-2000

TOTAL AMOUNT RECEIVED: 672.37 Tons
treated and recycled in accordance with state regulation.

Ron Twilley
General Manager

Witness my hand and official seal this 31st day of January, 2001.

Notary Public
My commission expires 16 September 2002.

INDUSTRIAL WATER SERVICES

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

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

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

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

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

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

INDUSTRIAL WATER SERVICES

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

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

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

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

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

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 29th of September, 2000; 2,800 gallons of non-hazardous oily waste water as described on manifest number 151400, 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

INDUSTRIAL WATER SERVICES

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

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

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

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

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

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 8th of October, 2000; 400 gallons of Petroleum Contact Water, as described on manifest number 156800, 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

END

PERMA-FIX®
ENVIRONMENTAL SERVICES

US NAVY NAS CECIL FIELD
ENV RECOVERY
ENVIRONMENTAL SAFETY
PO BOX 330569
JACKSONVILLE FL 32233

08-Nov-00

REF: MANIFEST NUMBER: 110
SHIPMENT NUMBER: GV-77H

CERTIFICATE OF RECYCLING/MATERIALS RE-USE

ON THE ABOVE DATE, YOUR WASTE MATERIAL WAS RECEIVED AT OUR FACILITY FOR THE PURPOSE OF RECYCLING AND OR FUEL BLENDING.

THIS MATERIAL WILL BE DISPOSED OF IN FULL BY RECLAMATION OR REUSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

THIS ENTIRE PROCESS IS GENERALLY COMPLETED WITHIN A 30-DAY PERIOD FROM THE DATE OF THE SHIPMENT.

1940 N.W. 67TH PLACE · GAINESVILLE, FLORIDA 32653 · TEL (352) 373-6066 · FAX (352) 372-8903
E-MAIL: floridasales@perma-fix.com · WEBSITE: www.perma-fix.com/florida

Appendix D

Analytical Laboratory Reports 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
Page 1

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

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
Page 2

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

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
Page 3

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

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
Page 4

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

STL
Commited 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
Page 5

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	<5.6
Surrogate - Dibromofluoromethane	<11
Surrogate - Toluene-d8	91 %
Surrogate - 4-Bromofluorobenzene	103 %
Dilution Factor	96 %
Prep Date	1
Analysis Date	07.25.00
Batch ID	07.25.00
Prep Method	KAS097
Analyst	5035
	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.

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: NTPP CLEAN SOIL PILE #1
Sampled By: Client
Code: 172500726
Page 6

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			
Analysis Date	07.25.00	07.25.00	07.25.00	---	07.25.00	07.25.0
Batch ID	FLS080	FLS080	FLS080	---	FLS080	
Prep Method	3550	3550	3550	---	3550	
Analyst	HAH	HAH	HAH	---	HAH	

Commited 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 , 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

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
Page 8

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	---	---	---	---

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
Page 9

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	---	---	---	---

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
Page 10

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	---	---	---	---

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
Page 11

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

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
Page 12

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	---	---

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
Page 13

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	---	---

STL
Commited 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
Page 14

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 Reports for Confirmatory Soil Sample

TestAmerica
INCORPORATED

Sample Identification

002-AST190-S-0731-00

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8021B
Delivery Group: 202266
Instrument:

Lab Sample ID: 00-A107845
Date Sampled: 7/31/00
Date Received: 8/ 2/00
Analysis Date: 8/ 7/00
Analysis Time: 22:00
Sample QC Group: 7576

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
71-43-2	Benzene	1.23	U
108-88-3	Toluene	1.23	U
100-41-4	Ethylbenzene	1.23	U
1330-20-7	Xylenes, total	1.23	U
1634-04-4	MTBE	1.23	U

TestAmerica
INCORPORATED

Sample Identification

002-AST190-S-0731-00

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 202266
Instrument:
Grams Extracted: 30.0 g
Extract Vol: 1.00 ml

Lab Sample ID: 00-A107845
Date Sampled: 7/31/00
Date Received: 8/ 2/00
Analysis Date: 8/ 4/00
Analysis Time: 9:23
Sample QC Group: 9768

Extraction Date: 8/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	Naphthalene	41	.... U
.....	Acenaphthene	41	.... U
.....	Anthracene	27	.... U
.....	Fluoranthene	9	.... U
.....	Fluorene	21	.... U
.....	Pyrene	11	.... U
.....	Benzo(a)anthracene	5.3	.... U
.....	Benzo(a)pyrene	4	.... U
.....	Benzo(b)fluoranthene	7	.... U
.....	Benzo(k)fluoranthene	7	.... U
.....	Chrysene	6	.... U
.....	Dibenzo(a,h)anthracene	12	.... U
.....	Indeno(1,2,3-cd)pyrene	17	.... U
.....	Acenaphthylene	83	.... U
.....	Benzo(g,h,i)perylene	31	.... U
.....	Phenanthrene	26	.... U
.....	1-Methylnapthalene	62	.... U
.....	2-Methylnaphthalene	62	.... U

TestAmerica
INCORPORATED

Sample Identification

002-AST190-S-0731-00

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight

Lab Sample ID: 00-A107845
Date Sampled: 7/31/00
Date Received: 8/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG

Dilution Factor: 1.
Analysis Method: FPRO
Delivery Group: 202266
Instrument: PE-3
Grams Extracted: 30. g
Extract Vol: 2.0 ml

Analysis Date: 8/ 4/00
Analysis Time: 1:58
Sample QC Group: 9769

Extraction Date: 8/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
.....	.....TRPH	10200	.... U

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

Atlanta, GA 30
Tel No (770) 604 Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

1491 25 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)
Building 190; Tank 190 Removal	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 (Cont by 8021)	PAH (8310)	Pb Pro								SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	002-AST190-S-0731-00	Contaminated Soil - Tank #190	S	7/31/00	12:55	C	14	X	X	X								Grab		
2	002-AST190-W-0731-00	Groundwater Tank #190	GW	7/31/00	15:40	C	14	X	X									Grab		
3	002-EQ1-W-0731-00	Equipment Rinsate Blank - Fabricated	W	7/31/00	16:45	C	14	X	X	X								Equipment Blank		
4	002-EQ2-W-0731-00	Equipment Rinsate Blank - Field Clean	W	7/31/00	16:55	C	14	X	X									Equipment Blank		
5	002-TB1-W-0731-00	Trip Blank	W	7/31/00	06:45	C	14	X										Trip Blank		
6																			Sample Containers Sealed in Ziplock type Bags and placed on wet ice for Transportation	
7																				
8																				
9																			Samples transported to Test America	
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Richard Moriarity, Environmental Science Associates, Inc.		

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Richard Moriarity	7/31/00	18:10	Printed Name and Signature: [illegible]	7/31/00	1810
Printed Name and Signature:			Printed Name and Signature		

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

Form CC1001, Rev 02/00

Appendix F

Analytical Laboratory Reports for Confirmatory Groundwater Sample

TestAmerica
INCORPORATED

Sample Identification

002-AST190-W-0731-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8021B
Delivery Group: 202266
Instrument:

Lab Sample ID: 00-A107850
Date Sampled:: 7/31/00
Date Received: 8/ 2/00
Analysis Date: 8/ 6/00
Analysis Time: 23:16
Sample QC Group: 2726

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-AST190-W-0731-00

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 202266
Instrument:
Vol Extracted: 970. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A107850
Date Sampled:: 7/31/00
Date Received: 8/ 2/00
Analysis Date: 8/ 6/00
Analysis Time: 16:04
Sample QC Group: 9763

Extraction Date: 8/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.03	U
83-32-9	Acenaphthene	1.03	U
120-12-7	Anthracene	0.68	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	0.13	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	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U
90-12-0	1-Methylnapthalene	1.03	U
91-57-6	2-Methylnaphthalene	1.03	U

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

Atlanta, GA 30[illegible]
Tel No (770) 604 [illegible] Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

1491 25 page 1 of [illegible]

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)
Building 190; Tank 190 Removal	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 (Cont by 8021)	PAH (8310)	Flash Pt								SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	002-AST190-S-0731-00	Contaminated Soil - Tank #190	S	7/31/00	12:55	C	14	X	X	X								Grab		
2	002-AST190-W-0731-00	Groundwater Tank #190	GW	7/31/00	15:40	C	14	X	X									Grab		
3	002-EQ1-W-0731-00	Equipment Rinsate Blank - Fabricated	W	7/31/00	16:45	C	14	X	X	X								Equipment Blank		
4	002-EQ2-W-0731-00	Equipment Rinsate Blank - Field Clean	W	7/31/00	16:55	C	14	X	X									Equipment Blank		
5	002-TB1-W-0731-00	Trip Blank	W	7/31/00	06:45	C	14	X										Trip Blank		
6																			Sample Containers Sealed in Ziplock Tape Bags and Placed on Wet Ice for Transport	
7																				
8																				
9																			Samples Hand Delivered to Test America	
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Richard Moriarity, Environmental Science Associates, Inc.		

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: [signature]	7/31/00	18:10	Printed Name and Signature [signature]	7/31/00	18:10
Printed Name and Signature			Printed Name and Signature		

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

Form CC1001, Rev 02/00

Appendix G

FDEP Forms

Florida Department of Environmental Protection

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

Storage Tank Facility Registration Form

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

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 # 190 City: JACKSONVILLE, FL Zip: 32215

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

Facility Type(s): ELECTRICAL GENERATOR NAICS Code: _____ Financial Responsibillity: 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: [ ] Facility Owner/Operator [ ] Property Owner [ ] 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
G190A	T	A	1,500	UNK	G	B	SEP 2000	C, A, I	6	Q, 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)