N60200.AR.003123
NAS CECIL FIELD, FL
5090.3a

SOURCE REMOVAL REPORT FOR CONTAMINATED SOIL REMOVAL AT BUILDING 190

NAS CECIL FIELD FL

11/1/2001

CH2MHILL CONSTRUCTORS INC

Source Removal Report
Contaminated Soil Removal at Building 190

Naval Air Station Cecil Field
Jacksonville, Florida

Contract No. N62467-98-D-0995
Contract Task Order No. 0029

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

November 2001

Source Removal Report
Contaminated Soil Removal at Building 190

Contract No. N62467-98-D-0995
Contract Task Order No. 0029

Naval Air Station Cecil Field
Jacksonville, Florida

Submitted to:

U.S. Naval Facilities
Engineering Command
Southern Division

Prepared by:

CH2MHILL
Constructors, Inc.

November 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
Florida Department of Environmental Protection	1
CH2M HILL Constructors, Inc.	1
Tetra Tech NUS, Inc.	2

Certification of Technical Data Conformity (November 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. 0029 is complete and accurate and complies with all requirements of this contract.

Date:_____

Name and Title of Certifying Official:

_____

Samuel M. Ross
Project Manager

Certification of Completion

CH2M HILL Constructors, Inc., attests that, to the best of its knowledge and belief, the removal of contaminated soil at Building 190, delivered under Contract No. N62467-98-D-0995, Naval Air Station Cecil Field, Jacksonville, Florida, Contract Task Order No. 0029, has been completed, inspected, and tested, and is in compliance with the contract.

_____ _____

Project QC Manager Date

Contents

Acronyms ..... **iii**
1.0 Introduction **1-1**
1.1 Site Background 1-1
1.2 Project Objectives 1-1
2.0 Source Removal Activities **2-1**
2.1 Site Preparation 2-1
2.2 Soil Excavation and Disposal 2-1
2.2.1 Soil Excavation 2-1
2.2.2 Soil Transportation and Disposal 2-2
2.2.3 Backfilling and Site Restoration 2-2
2.3 Sampling and Analysis 2-2
2.3.1 Headspace Analysis 2-2
2.3.2 Laboratory Analyses of Soil Samples 2-3
2.3.3 Collection and Laboratory Analyses of Groundwater Samples 2-5
3.0 Conclusions **3-1**
4.0 References **4-1**

Figures

1-1 Site Location Map 1-2
1-2 Eastern Excavation Area 1-3
1-3 Western Excavation Area 1-4

Tables

2-1 Summary of Manifest for Soil Disposal 2-2
2-2 Summary of Headspace Screening Results 2-3
2-3 Summary of KAG Analyses for Soil 2-4
2-4 Summary of KAG Analysis for Groundwater 2-6

Appendices

A Photographs
B Copies of Soil Manifest
C Certificate of Disposal
D Clean Fill Certification
E Analytical Laboratory Reports for Confirmatory Soil Samples
F Analytical Laboratory Reports for Confirmatory Groundwater Sample
G Waste Profile

Acronyms

bls	below land surface
CCI	CH2M HILL Constructors, Inc.
CTO	Contract Task Order
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FID	flame ionization detector
FL-PRO	Florida Petroleum Residual Organic
GCTLs	Groundwater Cleanup Target Levels
KAG	Kerosene Analytical Group
NADSC	Natural Attenuation Default Source Concentrations (per FAC Chapter 62-770 and 62-777)
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
OVA	organic vapor analyzer
PAHs	polynuclear aromatic hydrocarbons
ppm	parts per million
SCTLs	Soil Cleanup Target Levels
TtNUS	Tetra Tech NUS
UST	underground storage tank
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 **Date of Source Removal: 9/28/01**

Required Information	Response
1. Volume of product that was discharged, if known	*Unknown*
2. Volume of free product and the volume of groundwater recovered	*None*
3. Volume of contaminated soil excavated and treated or properly disposed	*42.23 tons of soil excavated and disposed of offsite Refer to section 2.3.2 for details.*
4. Disposal or recycling methods for free product and contaminated soil	*Contaminated soils Disposed of at Broadhurst Landfill, Screven, Georgia and Chesser Island Landfill, Folkston, GA.*
5. Disposal methods for other contaminated media	*No other contaminated media*
6. Scaled site map (including a graphical representation of the scale used) showing location(s) of free product recovered and the area of soil removed or treated and the approximate locations of all samples taken	*See Figure 1-2, and Figure 1-3.*
7. Table summarizing free product thickness in each monitoring well or piezometer and the dates the measurements were made	*No free product encountered.*
8. Type of field screening instrument or method used	*OVA/FID (Foxboro TVA 1000).*
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 areas: (see Figures 2-1a and 2-1b)* *Eastern excavation: 10 feet long by 10 feet wide by 3 feet deep at deepest point, Western excavation: 17 feet long by 17 feet wide by 3 feet deep at deepest point. 1,000-gal UST and 1,500-gal AST contained heating oil previously removed. All lines previously removed.*
10. Dimensions of the excavation(s) and location(s) and capacities of replacement underground storage tanks	*Not Applicable. Tanks were removed previously and no replacement tanks installed.*
11. Table indicating the identification, depth and field soil screening results of each sample collected	*See Table 2-2.*
12. Depth to groundwater at the time of each excavation, measurement locations and method used to obtain that information	*Depth to groundwater approximately 2 .5 feet bls. Noted in excavation.*
13. Type of petroleum or petroleum products discharged	*Diesel Fuel for an emergency Generator.*
14. Documentation confirming the proper treatment or proper disposal of the free product or contaminated soil, including disposal manifests for free product, a copy of the treatment or acceptance of the contaminated soil and results of analyses, if performed	*See Table 2-1 and Appendix C.*
15. For land farmed soil, a copy of the pre-treatment and post-treatment analytical results	*Not Applicable. Soil disposed of offsite.*

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI) was contracted by the Southern Division Naval Facilities Engineering Command (Southern Division, NAVFAC) to perform the excavation of petroleum-contaminated soil associated with the former fuel storage tanks at Building 190 at Former Naval Air Station (NAS) Cecil Field in Jacksonville, Florida and prepare a Source Removal Report. The source removal was conducted in accordance with the Florida Department of Environmental Protection (FDEP) Petroleum Contamination Site Cleanup Chapter 62-770, Florida Administrative Code (FAC). This work was authorized under Response Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0029.

1.1 Site Background

The Building 190 site contained two areas of petroleum-contaminated soil associated with former underground storage tanks (USTs) at the site. Figure 1-1 shows the location of Building 190 at NAS Cecil Field. The contaminated areas are shown on Figures 1-2 and 1-3.

1.2 Project Objectives

The primary objective of the soil excavation was to remove petroleum-contaminated soil associated with former USTs at the site that exceeded the Soil Cleanup Target Levels (SCTLs) outlined in Chapters 62-770 and 62-777, FAC. FDEP allows the use of organic vapor analyzer (OVA) headspace analysis as a screening tool in evaluating whether soil samples exceed the SCTLs. In this procedure, two clean 16-ounce, wide mouth 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 with a carbon filter and the other jar without 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 parts per million (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 exhibiting a volatile organic compound (VOC) 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 VOC concentrations of less than 10 ppm were achieved, and then a confirmatory sample for the Kerosene Analytical Group (KAG) was obtained. Where soil concentrations exceeded the SCTLs, the extent of the contamination was delineated using laboratory analyses from soil samples collected from additional soil borings that were advanced with a stainless steel hand auger, and additional excavation was performed.

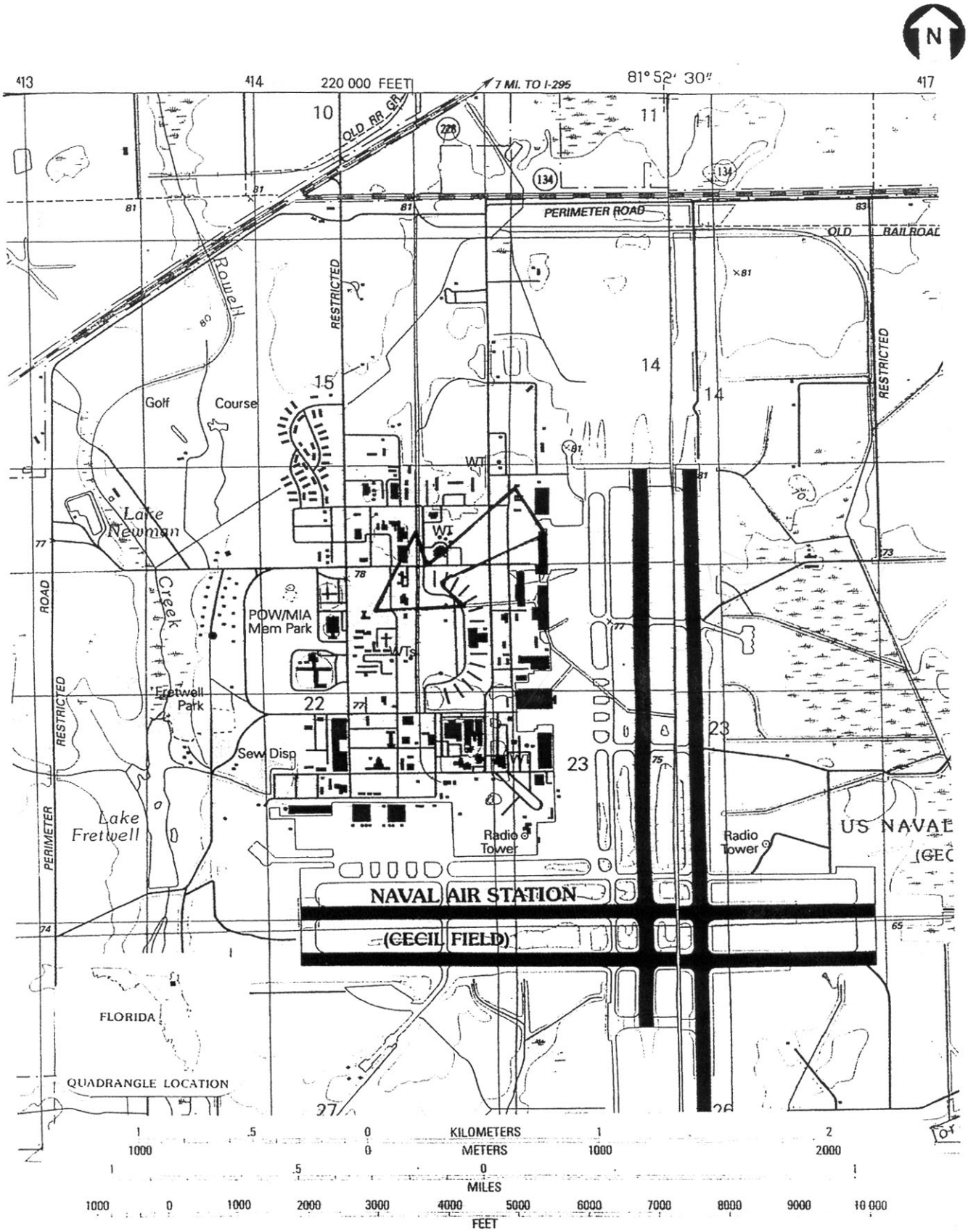

Figure 1-1
Site Location Map
Building 190
NAS Cecil Field, Jacksonville, Florida

CH2MHILL

A102001004ATL\Cecil 102.fh8

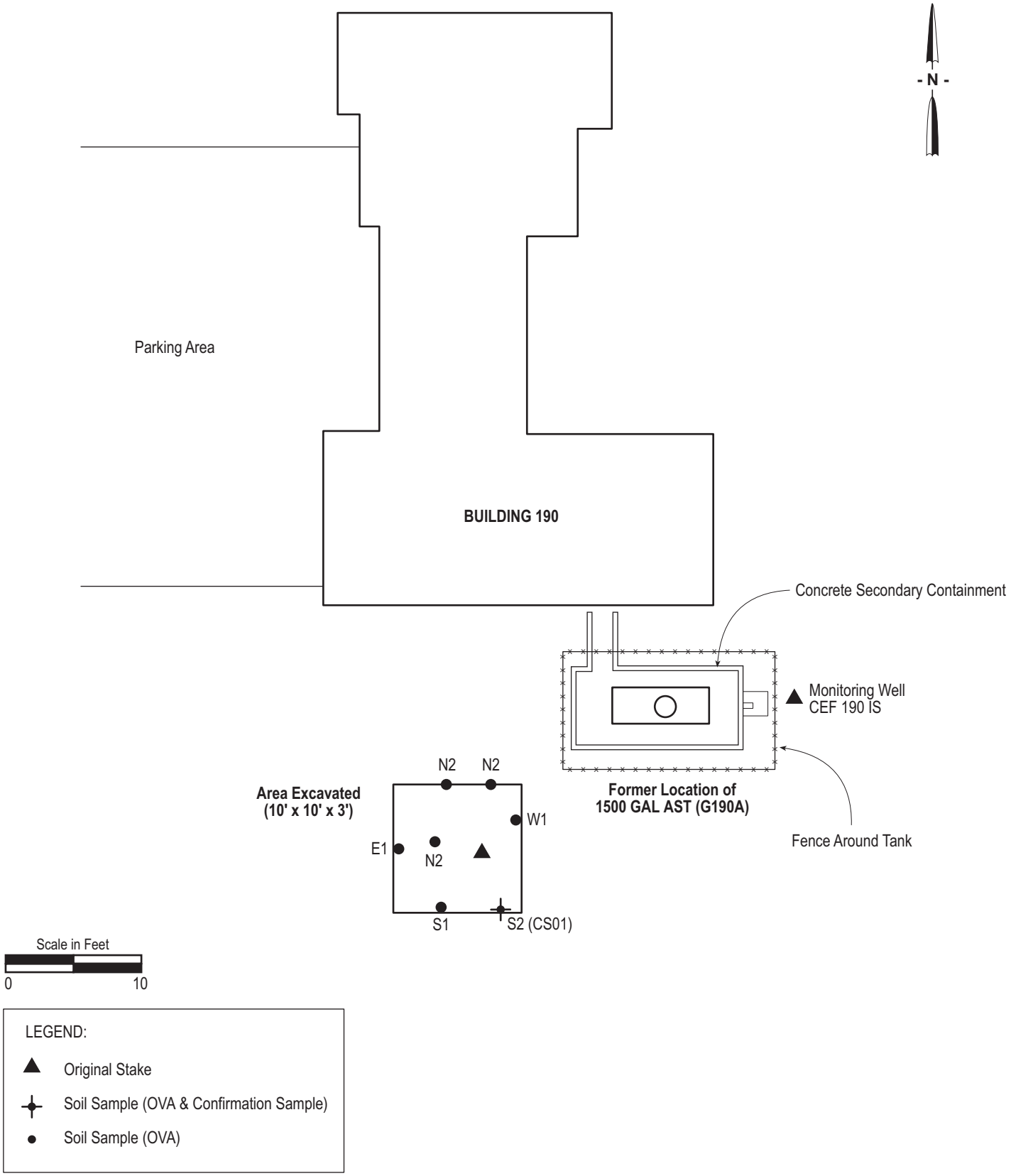

Figure 1-2
Eastern Excavation Area
Building 190
NAS Cecil Field, Jacksonville, Florida

CH2MHILL

A102001004ATL - Cecil 104.fh8

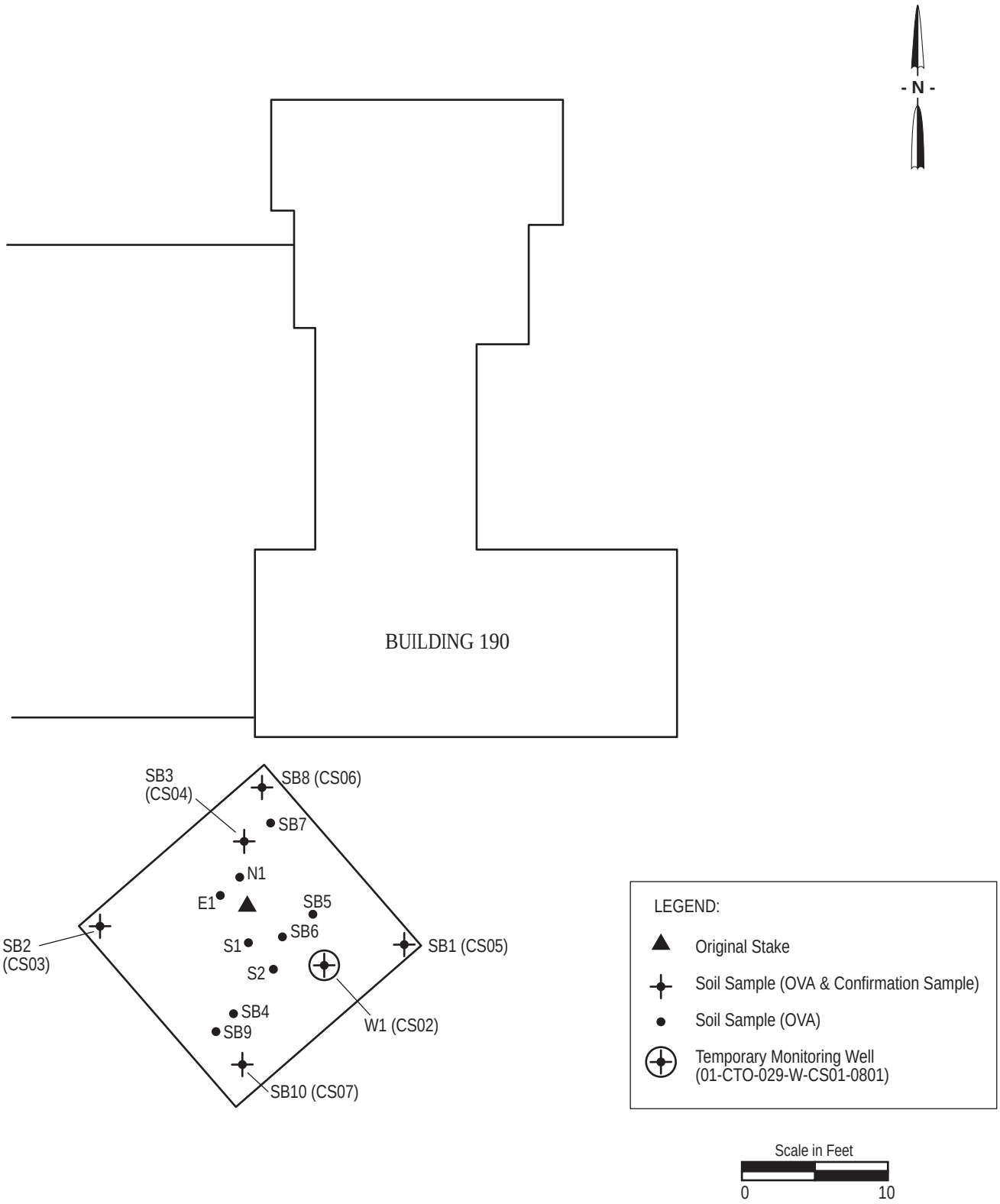

Figure 1-3
Western Excavation Area
NAS Cecil Field, Jacksonville, Florida

CH2MHILL

A102001004ATL\Cecil 103.fh8

2.0 Source Removal Activities

A source removal was conducted at Building 190 from July 31, 2001 to September 28, 2001. A total of 42.23 tons of petroleum-contaminated soil was excavated from the site and disposed offsite. No free product was found during the excavation activities. Photographs showing the site during and after the source removal are presented in Appendix A.

2.1 Site Preparation

In preparation for excavation, the facility maintenance contractor, and Sunshine State One Call of Florida marked out utilities. No utilities were encountered.

2.2 Soil Excavation and Disposal

2.2.1 Soil Excavation

Soil was excavated at two locations at the site, based upon contaminated soil samples collected during the Site Assessment performed during July 1999 (Tetra Tech NUS [TtNUS], 1999). The excavations were initiated at these contaminated soil sample locations as marked by Tetra Tech NUS. The excavations were then expanded based on the limits of the excessively contaminated soil delineated during the source removal using OVA headspace and laboratory analysis. A combined total of 42.23 tons of contaminated soil was removed from the two excavations. The soil was excavated using a backhoe and was direct-loaded into trucks for offsite disposal.

Eastern Excavation

The eastern excavation was performed on July 31, 2001. Soil was excavated vertically to just below the water table (2.5 feet below land surface [bls]) and horizontally until OVA readings were below 10 ppm. The resulting excavation measured 10 feet wide by 10 feet long by 3 feet bls as shown on Figure 1-2. A total of approximately 11 tons of petroleum-contaminated soil was removed from the eastern excavation area.

Western Excavation

The western excavation was performed in two phases, one on July 31, 2001 and the second on September 27, 2001. During the initial effort, soil was excavated vertically to just below the water table (2.5 feet bls) and horizontally until OVA readings were below 10 ppm. The resulting excavation measured 5 feet wide by 5 feet long by 3 feet deep. Laboratory results for the confirmatory soil sample collected from the initial excavation indicated that semi-volatile concentrations in the remaining soil exceeded residential direct exposure SCTLs as specified by Chapter 62-777, FAC. For this reason, additional delineation sampling was performed and the excavation area was expanded. The final excavation limits measured 17 feet wide by 17 feet long by 3 feet deep as shown on Figure 1-3. A total of approximately 31.23 tons of petroleum-contaminated soil was removed from the western excavation area.

2.2.2 Soil Transportation and Disposal

The petroleum-contaminated soil was transported offsite by truck to the Broadhurst Landfill in Jesup, Georgia, and the Chesser Island Landfill in Folkston, Georgia. A summary of the manifests is presented in Table 2-1, copies of the manifests are provided in Appendix B, and Certificates of Disposal are provided in Appendix C. The certificate of disposal from Broadhurst Landfill accounts for 21.3 tons of petroleum contaminated soil: 14.14 tons from Building 190 and 7.16 tons from another site.

TABLE 2-1
Summary of Manifest for Soil Disposal

Date	Truck #	Company	Manifest #	Weight (pounds)	Tare (pounds)	Net (pounds)	Net (tons)
08/01/01	0006	Beaver Bulk	8912	56,940	28,660	28,280	14.14
09/28/01	103	Bar K Ranch	48386	84,900	28,720	56,180	28.09
				TOTAL			**42.23**

2.2.3 Backfilling and Site Restoration

The material used to backfill the excavation was obtained from Coxwell's Crystal Springs Pit and delivered by Spencer Contracting. Backfill was performed in 2-foot lifts to grade and was machine-compacted. No compaction testing was required because the site is in a remote area that will not support vehicular traffic. A copy of the analytical report confirming that the material was clean fill is presented in Appendix D.

The backfilled area was leveled to match the existing grade and seeded with a mixture of rye and bahia grass.

2.3 Sampling and Analysis

2.3.1 Headspace Analysis

During the excavation of the contaminated soil, soil samples were collected and screened using an OVA equipped with an FID in accordance with the procedures outlined in Chapter 62-770.200(8), FAC . A methane filter was used to subtract methane. See Section 1.2 for details of the screening methodology. The results of the headspace analyses are listed in Table 2-2.

TABLE 2-2
Summary of Headspace Screening Results

Sample Location* (Confirmation samples noted as CS0#)	Depth (feet bls)	FID Unfiltered (ppm)	FID with Filter (ppm)	FID Net (ppm)
Eastern Excavation Area				
N-1	2	ND	NR	N/D
E-1	2	34	43	0
S-1	2	ND	NR	ND
W-1	2	4	NR	4
S-2 (CS01)	2	4	NR	4
B-1(Bottom)	3	2	6	0
N-2	1	ND	NR	ND
Western Excavation Area				
N-1	2	12	3	9
W-1 (CS02)	2	11.6	2	9.6
E-1	2	2	1	1
S-1	2	ND	NR	ND
S-2	2	11.5	21.1	0
SB-1 (CS05)	2	4	3	1
SB-2 (CS03)	2	4	2	2
SB-3 (CS04)	2	0.5	NR	0.5
SB-4	2	ND	NR	ND
SB-5	2	34	43	0
SB-6	2	ND	NR	ND
SB-7	2	4	8	0
SB-8 (CS-06)	2	3.2	2.1	1.1
SB-9	2	45	33	12
SB-10 (CS-07)	2	2	1	1

*see Figures 1-2 and 1-3
NR = Not Recorded
ND= Not Detected
ppm = parts per million

2.3.2 Laboratory Analyses of Soil Samples

One soil sample was collected from the eastern excavation in the area of the excavation that yielded the highest OVA reading and analyzed for the Kerosene Analytical Group (KAG). The sample was collected using stainless steel handtools and Encore brand samplers. The sample was placed into pre-cleaned, laboratory supplied sample containers, appropriately labeled, sealed in zip-lock type bags and placed on wet ice for transport. The sample was delivered to an approved laboratory for analysis by the following methods:

- EPA Method 8021B - VOCs
- EPA Method 8270C — extractable organic compounds
- Florida Petroleum Residual Organics (FL-PRO) — total petroleum hydrocarbons

The sample location is shown on Figure 1-2; analytical results are summarized in Table 2-3.

TABLE 2-3
Summary of KAG Analyses for Soil

Sample Location	Depth	Sample ID	Date	TRPH	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) Anthracene	Benzo (a) Pyrene	Benzo (b) Fluoranthene	Benzo (ghi) Perylene	Benzo (k) Fluoranthene	Chrysene	Dibenzo (ah) Anthracene	Fluoranthene	Fluorene	Indeno (123cd) Pyrene	Phenanthrene	Pyrene	Naphthalene	1- Methylnaphthalene	2- Methylnaphthalene	Benzene	Ethylbenzene	Toluene	Xylenes	MTBE
CS01	2'	029-CS01-0731	07/31/01	120	ND	ND	0.003	ND	0.028	0.016	0.045	0.005	0.012	ND	0.010	ND	0.039	0.006	0.024	ND	ND	ND	ND	ND	ND	ND	ND
CS02	2'	029-CS02-0801	08/01/01	22	8.3	ND	21.0	42.0	21.0	21	5.0	21.0	38	ND	140.0	8.0	5.7	69.0	100.0	ND	ND	ND	ND	ND	ND	ND	ND
CS03	2'	190-CS03-S-0816	08/16/01	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
CS04	2'	190-CS04-S-0816	08/16/01	NA	ND	ND	0.254	1.42	0.968	1.12	0.293	0.694	1.02	ND	2.62	ND	0.304	0.603	2.86	ND	ND	ND	NA	NA	NA	NA	NA
CS05	2'	190-CS05-S-0816	08/16/01	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
CS06	2'	190-CS06-S-0919	09/19/01	NA	ND	0.006	ND	0.014	0.019	0.023	0.018	0.012	0.016	ND	0.016	ND	0.016	0.005	0.012	ND	ND	ND	NA	NA	NA	NA	NA
CS07	2'	190-CS07-S-0919	09/19/01	NA	ND	ND	ND	0.004	0.008	0.009	ND	ND	0.004	ND	0.005	ND	ND	ND	0.006	ND	ND	ND	NA	NA	NA	NA	NA
*FDEP Soil Cleanup Target Levels (Leachability)				340	2.1	27	2500	3.2	8.0	10.0	32000	25	77	30	1200	160	28	250	880	1.7	2.2	6.1	0.007	0.6	0.5	0.2	0.2
*FDEP Soil Cleanup Target Levels (Direct Exposure Residential)				340	1900	1100	18000	1.4	0.1	1.4	2300	15	140	0.1	2900	2200	1.5	2000	2200	40	68	80	1.1	1100	380	5900	3200

Values are reported in milligrams per kilogram (mg/kg).
*Soil Cleanup Target Levels as specified in Chapter 62-777, FAC
*Please see Appendix E for detection limits.
ND = Not Detected
NA = Parameter Not Analyzed

For the western excavation area, one soil sample was collected at the area that yielded the highest OVA reading during the initial excavation and analyzed for KAG. Because the results from the initial sample were above the SCTLs, additional OVA screening and laboratory analysis of soil samples from soil borings was performed to delineate the extent of the soil contamination prior to the second excavation. The additional samples were laboratory analyzed only for extractable organic compounds by EPA Method 8270C because the extractable organics were the only contaminates above the SCTLs in the initial sample. The location of the soil samples are shown on Figure 1-3 and results of the confirmation samples are summarized in Table 2-3.

The final results of the laboratory analysis indicated no contaminant concentrations above the SCTLs at the horizontal excavation boundaries. A copy of the analytical laboratory report is provided in Appendix E.

2.3.3 Collection and Laboratory Analyses of Groundwater Samples

One confirmatory groundwater sample was collected using a Teflon bailer from a temporary well installed within the boundaries of the western excavation area. At the direction of the Navy, a groundwater sample was not collected from the eastern excavation because the groundwater had previously been confirmed to be below Groundwater Cleanup Target Levels (GCTLs) as specified in Chapter 62-777, FAC, Table I.

The groundwater sample obtained from the western excavation was poured into sample containers provided by the designated laboratory. The sample was delivered to a Navy-approved laboratory for analysis by the following methods:

- EPA Method 8260B — VOCs
- EPA Method 8270 — Polynuclear Aromatic Hydrocarbons (PAHs)
- FL-PRO — Total Petroleum Hydrocarbons

The laboratory results indicated no concentrations of petroleum contaminants above the applicable GCTLs. The location of the temporary well is shown on Figure 1-3, and the results of the laboratory analysis are summarized in Table 2-4. Copies of the analytical laboratory report are provided in Appendix F.

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	Xylenes	Toluene	TRPH
Temp Well BLD 190	01-CTO-029-W-CS01-0801	8/01/01	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	20	40	5000
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	200	400	50000

Values are reported in micrograms per liter (µg/L).
ND = Not Detected
NA = Not Analyzed
NL = Not Listed
1) As specified in Chapter 62-777 FAC
Please see Appendix F for detection limits.
Items in Bold exceed Groundwater Cleanup Target Levels

3.0 Conclusions

During the source removal 42.23 tons of petroleum-contaminated soil were removed from the locations shown in Figures 1-2 and 1-3. The soil was transported to Broadhurst Landfill in Jesup, Georgia, and Chesser Island Landfill in Folkston, Georgia. The horizontal and vertical limits of the excavation had headspace VOC concentrations, as measured with an OVA with FID, of less than 10 ppm. The final confirmatory soil samples that were collected were below SCTLs for all KAG parameters, confirming that the horizontal and vertical limits of the soil contamination had been achieved. One groundwater sample was collected for KAG analyses from a temporary well that was installed in the area of the western excavation that produced the highest OVA readings. The results exhibited no KAG constituents above the GCTLs per Chapter 62-777, FAC. No free product was encountered during the excavation.

No Further Action Status, per Chapter 62-770.680 FAC, is recommended for this site because the following criteria have been met:

- Based on visual inspection, free product is not present at the site.
- Excessively contaminated soil has been removed from the site, as demonstrated by OVA screening performed during the excavation and analytical results from confirmatory soil samples collected from the excavation.
- Contaminated soil is not present in the unsaturated zone at the site, as demonstrated by analytical results from confirmatory soil samples collected from the excavation.
- Based on analytical results from a confirmatory groundwater sample collected, petroleum contaminated groundwater is not present at the site.

4.0 References

CH2M HILL Constructors, Inc. November 1998. Base-wide Work Plan, Revision 01. NAS Cecil Field Jacksonville, Florida.

CH2M HILL Constructors, Inc. March 2001. Aboveground Storage Tank Closure at Building 190, Tank Number G190 AST, Naval Air Station Cecil Field, Jacksonville, Florida.

Florida Department of Environmental Protection. August 1999. Contaminant Target Levels Rule, Soil, Groundwater and Surface Water Target Cleanup Levels, Chapter 62-777, Florida Administrative Code.

Appendix A

Photographs

1. Building 190 - East Excavation. Site conditions prior to the initiation soil excavation activities, looking North.

2. Building 190 - East Excavation. View of excavation in progress, looking South.

3. Building 190 - West Excavation. View of excavation in progress, looking South.

4. Building 190 – Western Excavation. View of area after backfilling, looking West.

Appendix B

Copy of Soil Manifest

WASTE MANAGEMENT

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of 1

A. Manifest Number **WMNA** 48386

3. Generator's Name and Mailing Address: U.S. NAVY - Cecil Field, 6219 Authority Road, JACKSONVILL FL 32221

4. Generator's Phone

B. State Generator's ID

5. Transporter 1 Company Name: Bar K Ranch

6. US EPA ID Number: 527540

C. State Transporter's ID

D. Transporter's Phone: (912) 882-8921

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Chesser Island Landfill, P.O. Box 128, Folkston, GA 31537

10. US EPA ID Number: 024-0006D

G. State Facility's ID

H. Facility's Phone: (912) 496-7918

GENERATOR

11. Description of Waste Materials	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. Contaminated soil — WM Profile # CT 2141	001	DT	21.80 ~~19~~ 20	Ton	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Landfill ____ Solidification ____

Bio Remediation ____

K. Disposal Location

Cell ____ Level ____

Grid ____

15. Special Handling Instructions and Additional Information

Purchase Order #

EMERGENCY CONTACT: #102

16. GENERATOR'S CERTIFICATION:

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Printed/Typed Name | Signature "On behalf of" D. J. Krupski | Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

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

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest

Printed/Typed Name: Pat Barnard | Signature: Pat Barnard | Month Day Year 10 02 94

CWM - NHM - 1 - 5/97

#1 - TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Chesser Island Road Landfill

WASTE MANAGEMENT

Post Office Box 128
Folkston, Georgia 31537 - 0128
Telephone (912) 496-7918

NO 26990

Material Cont Soil

Date 09-28-01

Shipper U.S. Navy - Cecil Field
Park 122 - Calvin manif# 48386

Weigher Pat Barnard

Remarks OCW Jax

28.09

idnone ID
09-28-2001 07:03

84580 lb GROSS
28400 lb TARE*
56180 lb NET

REPUBLIC
Waste Services Division

Manifest Number: **8911**

NON-HAZARDOUS WASTE MANIFEST

GENERATOR

Generator Name: US Navy
US EPA ID#: FL5170022474
Billing Address: 6219 Authosity Road, Jacksonville, FL. 32215
Site Address: Bldg 190 - NAS Cecil Field, Jacksonville, FL.
County of Origin: Duval
Phone: (904) 777-4812

Description of Waste	Total Quantity	Profile Number	Unit of Measure	Container Type
Contaminated Soil	13.75	20183	Ton	Dump Trailer
			11.14	

Special Handling Instructions
Site Bldg 190

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

D.J. KRUZICKI
Generator Authorized Agent Name

D. J. Kruzicki
Signature

Date Shipped

TRANSPORTER

Transporter Name: Beaver Bulk
DOT#: 0254452
Address: P.O. Box 447, Live Oak, Fl
Truck Number: 0006
GEORGE CUATT
Name of Authorized Agent

Signature

9/1/01
Date Delivered

DISPOSAL FACILITY

Site Name: Broadhurst Environmental, Inc.
Phone Number: 912-530-7050
Address 4800 Broadhurst Rd. W., Jesup, Georgia 31545

I hereby acknowledge receipt of the above described materials.

Broadhurst
Name of Authorized Agent

Signature

9-1-01
Date Received

White - Original Yellow - Transporter Pink - Disposal Facility Gold - Customer

Appendix C

Certificate of Disposal

Southland
Waste
SWS Systems, Inc.

CERTIFICATE OF DISPOSAL

This letter is to certify that all wastes received from CH2Mhill, Inc. on behalf of CCI/US Navy on the following dates were landfilled in accordance with all state and federal regulations.

Manifest Number	Tonnage	Dates
8911 & 8912	21.3	8/01/01

Disposal Method was D-81 (Subtitle D Landfill)

BROADHURST ENVIRONMENTAL, INC.

Butch Pustay 9/6/01
Butch Pustay Date

8619 WESTERN WAY • JACKSONVILLE, FL 32256 • P.O. BOX 56110 (32241)
SERVICE (904) 731-1232 • SALES (904) 731-1732 • ADMINISTRATIVE / BILLING (904) 731-2456

CHESSER ISLAND ROAD LANDFILL, INC.

Post Office Box 128
Folkston, Georgia 31537 - 0128
Phone: (912) 496-7918 • Fax:(912) 496-1132

CERTIFICATE OF DISPOSAL

This letter is to certify that all wastes received from CCI on behalf of the US Navy on the following dates were landfilled in accordance with all state and federal regulations.

Manifest Number	Tonnage	Dates
48386	28.09	9/28/01
48387	11.92	9/28/01

Disposal Method was D-81 (Subtitle D Landfill)

CHESSER ISLAND ROAD LANDFILL, INC.

Morris Purvis

Morris Purvis

10/25/01
Date

Appendix D

Analytical Lab Data for Clean Fill

ASI ANALYTICAL SERVICES, INC.
Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

FAXED 8-30-00 CB

Laboratory Report

Report Number: 124935

Project: Coxwell Pit

Prepared For:

Tim-Prep Inc.
540 West Mill Street
Baldwin, FL 32234

Attention: Mr. Michael Stokes

August 8, 2000

P.O. No. 7353

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Shari Harper
Project Manager

Kathryn Smith
Quality Assurance

Analytical Services Inc., Norcross Laboratory maintains the following certifications, approvals, and accreditations: Georgia Laboratory Certification No.'s: 812/351/1301; Alabama Laboratory I.D. No.: 41090; Arkansas Certification; California Laboratory Certification No.:2290; Connecticut Laboratory I.D. No.: PH-0250; Florida Certification No.'s: 87403/E87315 and Florida QA Plan No.: 910158G; National Sanitation F tion International Certification No.: 04180; North Carolina Certification No.: 381; North Dakota Certification No.: R-118; Oklahoma Laboratory I.D. 9 south Carolina Laboratory I.D. No.: 98011; Tennessee Laboratory I.D. No.: 02994; United States Army Corps of Engineers-MRD Certification; USDA Soil Import License No.: S-36027; and Virginia Laboratory I.D. No.: 00026. All analysis performed by or under the supervision of a Georgia Drinking Water or Wastewater Certified Analyst. Analyst certification numbers available upon request.

This report may not be reproduced, except in full, without written approval from Analytical Services, Inc.

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Tim-Prep Inc.
540 West Mill Street
Baldwin, FL 32234

Attention: Mr. Michael Stokes
Report No. **124935**

P.O. No. 7353
August 8, 2000

Sample Description

Tim-Prep Inc.

Soil, grab. Coxwell Pit, North\South\East\West Areas, 07/20/2000. received 07/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
	General Chemistry			
EPA 9045	pH (laboratory)	5.34E	-	
	Target Analyte List - Metals			
	Metals			
EPA 6010	Total Aluminum (Al)	2900	10	mg/kg
EPA 6010	Total Antimony (Sb)	BDL	5.0	mg/kg
EPA 7060	Total Arsenic (As)	BDL	3.0	mg/kg
EPA 6010	Total Barium (Ba)	BDL	1.0	mg/kg
EPA 6010	Total Beryllium (Be)	BDL	1.0	mg/kg
EPA 6010	Total Cadmium (Cd)	BDL	1.0	mg/kg
EPA 6010	Total Calcium (Ca)	300	5.0	mg/kg
EPA 6010	Total Chromium (Cr)	3.1	1.0	mg/kg
EPA 6010	Total Cobalt (Co)	BDL	4.0	mg/kg
EPA 6010	Total Copper (Cu)	3.1	2.0	mg/kg
EPA 6010	Total Iron (Fe)	78	10	mg/kg
EPA 6010	Total Lead (Pb)	BDL	5.0	mg/kg
EPA 6010	Total Magnesium (Mg)	14	5.0	mg/kg
EPA 6010	Total Manganese (Mn)	BDL	4.0	mg/kg
EPA 7471	Total Mercury (Hg)	BDL	0.25	mg/kg
EPA 6010	Total Nickel (Ni)	BDL	2.0	mg/kg
EPA 6010	Total Potassium (K)	24	20	mg/kg
EPA 7740	Total Selenium (Se)	BDL	4.0	mg/kg
EPA 6010	Total Silver (Ag)	BDL	1.0	mg/kg
EPA 6010	Total Sodium (Na)	280	5.0	mg/kg
EPA 7841	Total Thallium (Tl)	BDL	5.0	mg/kg

BDL - Below Detection Limit
E - Estimated concentration

Sample Description

Tim-Prep Inc.

Soil, grab, Coxwell Pit, North\South\East\West Areas, 07/20/2000, received 07/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 6010	Total Vanadium (V)	BDL	2.0	mg/kg
EPA 6010	Total Zinc (Zn)	12	2.0	mg/kg
	Target Compound List			
	Volatile Organics			
EPA 8260B	Acetone	BDL	10	ug/kg
EPA 8260B	Benzene	BDL	10	ug/kg
EPA 8260B	Bromodichloromethane	BDL	10	ug/kg
EPA 8260B	Bromoform	BDL	10	ug/kg
EPA 8260B	Bromomethane	BDL	10	ug/kg
EPA 8260B	2-Butanone	BDL	10	ug/kg
EPA 8260B	Carbon disulfide	BDL	10	ug/kg
EPA 8260B	Carbon tetrachloride	BDL	10	ug/kg
EPA 8260B	Chlorobenzene	BDL	10	ug/kg
EPA 8260B	Chloroethane	BDL	10	ug/kg
EPA 8260B	Chloroform	BDL	10	ug/kg
EPA 8260B	Chloromethane	BDL	10	ug/kg
EPA 8260B	Dibromochloromethane	BDL	10	ug/kg
EPA 8260B	1,1-Dichloroethane	BDL	10	ug/kg
EPA 8260B	1,2-Dichloroethane	BDL	10	ug/kg
EPA 8260B	1,1-Dichloroethene	BDL	10	ug/kg
EPA 8260B	1,2-Dichloroethene (total)	BDL	10	ug/kg
EPA 8260B	1,2-Dichloropropane	BDL	10	ug/kg
EPA 8260B	cis-1,3-Dichloropropene	BDL	10	ug/kg
EPA 8260B	trans-1,3-Dichloropropene	BDL	10	ug/kg
EPA 8260B	Ethylbenzene	BDL	10	ug/kg
EPA 8260B	2-Hexanone	BDL	10	ug/kg
EPA 8260B	4-Methyl-2-pentanone	BDL	10	ug/kg
EPA 8260B	Methylene chloride	BDL	10	ug/kg
EPA 8260B	Styrene	BDL	10	ug/kg
EPA 8260B	1,1,2,2-Tetrachloroethane	BDL	10	ug/kg
EPA 8260B	Tetrachloroethene	BDL	10	ug/kg
EPA 8260B	Toluene	BDL	10	ug/kg
EPA 8260B	1,1,1-Trichloroethane	BDL	10	ug/kg
EPA 8260B	1,1,2-Trichloroethane	BDL	10	ug/kg
EPA 8260B	Trichloroethene	BDL	10	ug/kg
EPA 8260B	Vinyl chloride	BDL	10	ug/kg
EPA 8260B	Xylenes	BDL	10	ug/kg
	Pesticides			

BDL - Below Detection Limit

E - Estimated concentration

Sample Description

Tim-Prep Inc.

Soil, grab, Coxwell Pit, North\South\East\West Areas, 07/20/2000, received 07/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8081A	Aldrin	BDL	3.3	ug/kg
EPA 8081A	BHC-alpha	BDL	3.3	ug/kg
EPA 8081A	BHC-beta	BDL	3.3	ug/kg
EPA 8081A	BHC-delta	BDL	3.3	ug/kg
EPA 8081A	BHC-gamma (Lindane)	BDL	3.3	ug/kg
EPA 8081A	Chlordane-alpha	BDL	3.3	ug/kg
EPA 8081A	Chlordane-gamma	BDL	3.3	ug/kg
EPA 8081A	4,4'-DDD	BDL	3.3	ug/kg
EPA 8081A	4,4'-DDE	BDL	3.3	ug/kg
EPA 8081A	4,4'-DDT	BDL	3.3	ug/kg
EPA 8081A	Dieldrin	BDL	3.3	ug/kg
EPA 8081A	Endosulfan I	BDL	3.3	ug/kg
EPA 8081A	Endosulfan II	BDL	3.3	ug/kg
EPA 8081A	Endosulfan sulfate	BDL	3.3	ug/kg
EPA 8081A	Endrin	BDL	3.3	ug/kg
EPA 8081A	Endrin aldehyde	BDL	3.3	ug/kg
EPA 8081A	Endrin ketone	BDL	3.3	ug/kg
EPA 8081A	Heptachlor	BDL	3.3	ug/kg
EPA 8081A	Heptachlor epoxide	BDL	3.3	ug/kg
EPA 8081A	Methoxychlor	BDL	9.9	ug/kg
EPA 8081A	Toxaphene	BDL	66	ug/kg
	PCB's			
EPA 8082	PCB 1016	BDL	33	ug/kg
EPA 8082	PCB 1221	BDL	33	ug/kg
EPA 8082	PCB 1232	BDL	33	ug/kg
EPA 8082	PCB 1242	BDL	33	ug/kg
EPA 8082	PCB 1248	BDL	33	ug/kg
EPA 8082	PCB 1254	BDL	33	ug/kg
EPA 8082	PCB 1260	BDL	33	ug/kg
	Chlorinated Herbicides			
EPA 8151A	2,4-D	BDL	170	ug/kg
EPA 8151A	2,4-DB	BDL	30	ug/kg
EPA 8151A	2,4,5-T	BDL	4.0	ug/kg
EPA 8151A	2,4,5-TP (Silvex)	BDL	330	ug/kg
EPA 8151A	Dalapon	BDL	150	ug/kg
EPA 8151A	Dicamba	BDL	26	ug/kg
EPA 8151A	Dichloroprop	BDL	35	ug/kg
EPA 8151A	Dinoseb	BDL	130	ug/kg

BDL - Below Detection Limit
E - Estimated concentration

Sample Description

Tim-Prep Inc.

Soil, grab. Coxwell Pit. North\South\East\West Areas. 07/20/2000, received 07/21/2000

Analytical Method	Analyte	Result	Detection Limit	Units
EPA 8151A	MCPA	BDL	5000	ug/kg
EPA 8151A	MCPP	BDL	3800	ug/kg

BDL - Below Detection Limit
E - Estimated concentration

V 53

CHAIN OF CUSTODY RECORD

ASI ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

PAGE: 1 OF 1

CLIENT NAME: Tim-Pren Inc.

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 540 W [illegible] St. 904-266-4784 Baldwin FL 32234 904-266-[illegible]

ATTENTION: Mike Stokes

CC:

REQUESTED COMPLETION DATE: ASAP

PO #: 7353

PROJECT NAME/STATE: Coxwell Pit

PROJECT #:

FOR LAB USE ONLY
LAB #: 124935
QUOTE #:

*MATRIX CODES:
DW - DRINKING WATER, WW - WASTEWATER, GW - GROUNDWATER, SW - SURFACE WATER, ST - STORM WATER, L - LIQUID, S - SOIL, SL - SLUDGE, SD - SOLID, A - AIR, O - OIL, P - PRODUCT

DATE	TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# OF CONTAINERS	ANALYSIS REQUESTED	LAB ID NUMBER	REMARKS/ADDITIONAL INFORMATION
7-20-00	[illegible]	S		✓	North Area	1			Composited
7-20-00	[illegible]	S		✓	South Area	1			ASI [illegible]
7-20-00	[illegible]	S		✓	East Area	1			
7-20-00	[illegible]	S		✓	West Area	1			

SAMPLED BY AND TITLE: JOE [illegible]	DATE/TIME: 7/20 [illegible]	RELINQUISHED BY:	DATE/TIME:	COC/CUSTODY SEAL: ✓ ✓
RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	ICE: NO
RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	pH: N/A
RECEIVED BY LAB: [illegible]	DATE/TIME: [illegible]	SAMPLE SHIPPED VIA: UPS FED-EX COURIER CLIENT OTHER:		TEMPERATURE:
ENTERED INTO LIMS:	COC REVIEWED:	AIR BILL #: [illegible]	COOLER #:	SAMPLE CONDITION:

Environmental Conservation Laboratories, Inc.
4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
904 / 296-3007
fax 904 / 296-6210
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E82277

CLIENT : TASK Environmental
ADDRESS: 501 South Blvd.
Tampa, FL 33606

REPORT # : JAX14577
DATE SUBMITTED: December 4, 2000
DATE REPORTED : December 7, 2000

ATTENTION: Mr. Chris Cherniak

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: 149152

NTFF Removal

12/04/00

#1 - CFNT-WC-CLEANFILL @ 10:00

PROJECT MANAGER Scott D. Martin

Scott D. Martin

ENCO LABORATORIES
REPORT # : JAX14577
DATE REPORTED: December 7, 2000
REFERENCE : 149152
PROJECT NAME : NTFF Removal

RESULTS OF ANALYSIS

EPA METHOD 8270 - TCL Semivolatiles	CFNT-WC-CLEANFILL	LAB BLANK	Units
Acenaphthene	360 U	330 U	µg/Kg
Acenaphthylene	360 U	330 U	µg/Kg
Anthracene	360 U	330 U	µg/Kg
Benzo(a)anthracene	360 U	330 U	µg/Kg
Benzo(b)fluoranthene	360 U	330 U	µg/Kg
Benzo(k)fluoranthene	360 U	330 U	µg/Kg
Benzo(g,h,i)perylene	360 U	330 U	µg/Kg
Benzo(a)pyrene	360 U	330 U	µg/Kg
Benzylbutyl phthalate	360 U	330 U	µg/Kg
Bis(2-chloroethoxy)methane	360 U	330 U	µg/Kg
Bis(2-chloroethyl)ether	360 U	330 U	µg/Kg
Bis(2-chloroisopropyl)ether	360 U	330 U	µg/Kg
Bis(2-ethylhexyl)phthalate	360 U	330 U	µg/Kg
4-Bromophenylphenyl ether	360 U	330 U	µg/Kg
2-Chloronaphthalene	360 U	330 U	µg/Kg
Carbazole	360 U	330 U	µg/Kg
4-Chlorophenyl phenyl ether	360 U	330 U	µg/Kg
Chrysene	360 U	330 U	µg/Kg
Dibenzo(a,h)anthracene	360 U	330 U	µg/Kg
1,2-Dichlorobenzene	360 U	330 U	µg/Kg
1,3-Dichlorobenzene	360 U	330 U	µg/Kg
1,4-Dichlorobenzene	360 U	330 U	µg/Kg
3,3'-Dichlorobenzidine	710 U	660 U	µg/Kg

U - Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - TCL Semivolatiles	CFNT-WC-CLEANFILL	LAB BLANK	Units
Diethyl phthalate	360 U	330 U	µg/Kg
Dimethyl phthalate	360 U	330 U	µg/Kg
Di-n-butyl phthalate	360 U	330 U	µg/Kg
Di-n-octyl phthalate	360 U	330 U	µg/Kg
2,4-Dinitrotoluene	360 U	330 U	µg/Kg
2,6-Dinitrotoluene	360 U	330 U	µg/Kg
Fluoranthene	360 U	330 U	µg/Kg
Fluorene	360 U	330 U	µg/Kg
Hexachlorobenzene	360 U	330 U	µg/Kg
Hexachlorobutadiene	360 U	330 U	µg/Kg
Hexachlorocyclopentadiene	360 U	330 U	µg/Kg
Hexachloroethane	360 U	330 U	µg/Kg
Indeno(1,2,3-cd)pyrene	360 U	330 U	µg/Kg
Isophorone	360 U	330 U	µg/Kg
ethylnaphthalene	360 U	330 U	µg/Kg
hthalene	360 U	330 U	µg/Kg
Nitrobenzene	360 U	330 U	µg/Kg
N-Nitrosodi-n-propylamine	360 U	330 U	µg/Kg
N-Nitrosodiphenylamine	360 U	330 U	µg/Kg
Phenanthrene	360 U	330 U	µg/Kg
Pyrene	360 U	330 U	µg/Kg
1,2,4-Trichlorobenzene	360 U	330 U	µg/Kg
4-Chloroaniline	360 U	330 U	µg/Kg
2-Nitroaniline	360 U	330 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.

5

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - TCL Semivolatiles	CFNT-WC-CLEANFILL	LAB BLANK	Units
3-Nitroaniline	360 U	330 U	µg/Kg
4-Nitroaniline	360 U	330 U	µg/Kg
Dibenzofuran	360 U	330 U	µg/Kg
4-Chloro-3-methylphenol	360 U	330 U	µg/Kg
2-Chlorophenol	360 U	330 U	µg/Kg
2,4-Dichlorophenol	360 U	330 U	µg/Kg
2,4-Dimethylphenol	360 U	330 U	µg/Kg
2,4-Dinitrophenol	1800 U	1600 U	µg/Kg
2-Methyl-4,6-dinitrophenol	1100 U	990 U	µg/Kg
2-Nitrophenol	360 U	330 U	µg/Kg
4-Nitrophenol	360 U	330 U	µg/Kg
Pentachlorophenol	360 U	330 U	µg/Kg
Phenol	360 U	330 U	µg/Kg
2,4,6-Trichlorophenol	360 U	330 U	µg/Kg
2-Methylphenol	360 U	330 U	µg/Kg
3 & 4-Methylphenol	360 U	330 U	µg/Kg
2,4,5-Trichlorophenol	360 U	330 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	46	41	30-106
2-Fluorobiphenyl	61	57	38-107
Terphenyl -D14	75	72	29-131
Phenol -D5	40	42	12-87
2-Fluorophenol	38	42	19-115
2,4,6-Tribromophenol	43	39	35-126
Date Prepared	12/06/00	12/06/00	
Date Analyzed	12/06/00	12/06/00	

U = Compound was analyzed for but not detected to the level shown.

6

ENCO LABORATORIES
REPORT # : JAX14577
DATE REPORTED: December 7, 2000
REFERENCE : 149152
PROJECT NAME : NTFF Removal

RESULTS OF ANALYSIS

MISCELLANEOUS	METHOD	CFNT-WC-CLEANFILL	LAB BLANK	Units
Percent Solids	SM2540G	93	NA	%
Date Analyzed		12/06/00		

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CFNT-WC-CLEANFILL	LAB BLANK	Units
Hydrocarbons (C8-C40)	7.1 U	6.6 U	mg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	86	109	51-148
Date Prepared	12/05/00	12/05/00	
Date Analyzed	12/06/00	12/06/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX14577
DATE REPORTED: December 7, 2000
REFERENCE : 149152
PROJECT NAME : NTFF Removal

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8270				
Phenol	45/ 44/ 42	30-135	2	38
2-Chlorophenol	56/ 56/ 50	46-133	<1	38
1,4-Dichlorobenzene	57/ 54/ 49	31-123	5	33
N-Nitrosodi-N-Propylamine	44/ 43/ 41	26-112	2	29
1,2,4-Trichlorobenzene	65/ 60/ 46	37-131	8	20
4-Chloro-3-methylphenol	64/ 58/ 45	46-133	10	38
Acenaphthene	68/ 63/ 53	39-135	8	29
4-Nitrophenol	67/ 65/ 57	10-97	3	68
2,4-Dinitrotoluene	75/ 74/ 57	39-137	1	32
Pentachlorophenol	60/ 60/ 39	10-133	<1	41
Pyrene	79/ 76/ 53	39-160	4	37
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	76/ 89/ 83	62-204	16	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

5 Perimeter Center Place, Suite 700
anta, GA 30346-1278
' No (770) 604-9182 ; F 70) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 149152 page 1 of 1

OJECT 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.):
A.S. Cecil Field TFF Removal	149152	ENCO Laboratories, Inc. Wendy Wolfe	Chris Cherniak, TASK Environmental	P.O. Box 150866, Jacksonville, FL 32215 Phone 777-5580 Local Fax # 777-8188
OJECT 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.):
ffsite Clean Fill	0002		Bill Canelos, CCI/JAJES	6219 Authority Road, Jacksonville, FL 32221 phone (904) 777-4812 fax 904-777-4262
OJECT CONTACT:	PROJECT TEL NO AND FAX NO:	PH (813) 247-2805 FAX (813)-248-1537	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.):
hris Cherniak	phone (904) 777-5580	(904) 296-3007		

ANALYSES REQUIRED (Include Method Numbers)

EM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TCL, 8270, Semi-volatiles	TRPH by FL PRO								SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	CFNT-WC-Cleanfill	Tim Prep Source Pit	S	12/04/00	10:00	III/A	3 day	X	X								composite	OVA < 10 ppm	
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

MPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
hris Cherniak, TASK Environmental	Transported to ENCO Labs by TASK Environmental	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
nted Name and Signature: hris Cherniak, TASK Environmental	12/4/00	15:35	Printed Name and Signature:		
nted Name and Signature:	12/4/00	15:35	Printed Name and Signature:		

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

Form CC1001, Rev 12/00

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
005-BF01-S-0221-01

Lab Name: COLUMBIA ANALYTICAL SERVI Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: J2100508-001

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 0221-24

Level: (low/med) LOW Date Received: 02/21/01

% Moisture: 0 decanted: (Y/N) N Date Extracted: 02/21/00

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/21/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.6	U
91-57-6	2-Methylnaphthalene	3.6	U
208-96-8	Acenaphthylene	3.6	U
83-32-9	Acenaphthene	3.6	U
86-73-7	Fluorene	3.6	U
85-01-8	Phenanthrene	3.6	U
120-12-7	Anthracene	3.6	U
206-44-0	Fluoranthene	3.6	U
129-00-0	Pyrene	3.6	U
56-55-3	Benz(a)anthracene	3.6	U
218-01-9	Chrysene	3.6	U
205-99-2	Benzo(b)fluoranthene	3.6	U
207-08-9	Benzo(k)fluoranthene	3.6	U
50-32-8	Benzo(a)pyrene	3.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.6	U
53-70-3	Dibenz(a,h)anthracene	3.6	U
191-24-2	Benzo(g,h,i)perylene	3.6	U
90-12-0	1-Methylnaphthalene	3.6	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

005-DUP01
-S-0221-01

Lab Name: COLUMBIA ANALYTICAL SERVI Contract: NA

Lab Code: Case No.: NA SAS No.: NA SDG No.: NA

Matrix: (soil/water) SOIL Lab Sample ID: J2100508-002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0221-25

Level: (low/med) LOW Date Received: 02/21/01

% Moisture: 0 decanted: (Y/N) N Date Extracted: 02/21/00

Concentrated Extract Volume: 1(ml) Date Analyzed: 02/22/01

Injection Volume: _____(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	3.6	U
91-57-6	2-Methylnaphthalene	3.6	U
208-96-8	Acenaphthylene	3.6	U
83-32-9	Acenaphthene	3.6	U
86-73-7	Fluorene	3.6	U
85-01-8	Phenanthrene	3.6	U
120-12-7	Anthracene	3.6	U
206-44-0	Fluoranthene	3.6	U
129-00-0	Pyrene	3.6	U
56-55-3	Benz(a)anthracene	3.6	U
218-01-9	Chrysene	3.6	U
205-99-2	Benzo(b)fluoranthene	3.6	U
207-08-9	Benzo(k)fluoranthene	3.6	U
50-32-8	Benzo(a)pyrene	3.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.6	U
53-70-3	Dibenz(a,h)anthracene	3.6	U
191-24-2	Benzo(g,h,i)perylene	3.6	U
90-12-0	1-Methylnaphthalene	3.6	U

:H2M Hill Constructors, Inc.
/5 Perimeter Center Place, Suite 700
/lanta, GA 30346-1278
el No (770) 604-9182 , Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
148799-16

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.):
AS Cecil Field	148799	Columbia Analytical Labs, Inc. Tom Kissinger	Jennifer Zimmerman, CCI/J.A. Jones	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904 777-4812 Fax: 904-777-4262
ROJECT 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.)
)ffiste Backfill Analysis	CTO 005	2612	Jeff Wilmoth, CCI	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
ROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	PH (904) 739-2277 FAX (904)-739-2011	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.):
ill Canelos	PH (904) 777-4812 FAX (904) 777-4262			

ANALYSES REQUIRED (Include Method Numbers)

TEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	8270-SIMs SemiVols										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	005-BF01-S-0221-01	Coxwell's Crystal Springs Pit	soil	02/21/01	11:00	III/C	3 Day	x										grab	DL spec provided by J Wilmoth	
2	005-DUP01-S-0221-01	Coxwell's Crystal Springs Pit	soil	02/21/01	11:00	III/C	3 Day	x										grab	DL spec provided by J Wilmoth	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
ill Canelos, CCI/JAJES	sampler transport samples to Columbia Analytical Labs	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
inted Name and Signature: ill Canelos, CCI/JAJES W/ Canelos	2/21/01	12:10	Printed Name and Signature: M. J. Reason	2/21/01	1210
inted Name and Signature:			Printed Name and Signature:		

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

Form CC (Rev. 6/98)

Appendix E

Analytical Laboratory Reports for Confirmatory Soil Samples

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 : Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-18

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 Bldg 190	154282	Kemron Environmental Svcs	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 7774812 FAX: (904) 7774262
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.):
Bldg 190	0029		Jeff Wilmoth / CH2M Hill Constructors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext 561 FAX:604-9282
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.):
Paul Malewicki	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 770-449-8800 Fax: 770-449-5477		

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)	Volatiles by 8021B/8015	PAHs by 8310/8270C	TRPH by EL-PRO								SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	01-CTO-029-CS01-0731	Confirmatory	S	07/31/01	11:00	III B	14	x	x	x										
2	01-CTO-029-TB-0731	Trip Blank	W	07/31/01	2:00	III B	14	x												
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Scott Sloan / Paul Malewicki J.A. Jones Environmental Services		ice packed S/b intact/cooler temp 2C (6.19)

RELINQUISHED BY		DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:				Printed Name and Signature:		
P. Malewicki	Paul Malewicki	7/31/01	17:30	Federal Express 828532164350	7/31/01	17:30
Printed Name and Signature:				Printed Name and Signature:		
Brenda Gregory	Brenda Gregory	8/1/01	1107			
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 CC001, Rev 02/00

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8015
Lab Name : Kemron Environmental Services
Base/Command : blgs 9 and 46

AAB # : WG102131
Contract # : Jeff Wilmoth
Prime Contractor : CCI

Field sample ID	Lab Sample ID
01-CT0-029-CS01-0731	L0108017-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S. Tepe
Date: 07-AUG-01

Name: Dennis S. Tepe
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8015 Preparatory Method: 8015 MOD\3550B AAB # : WG102131

Lab Name : Kemron Environmental Services Contract#: Jeff Wilmoth

Field Sample ID: 01-CT0-029-CS01-0731 Lab Sample ID: L0108017-01 Matrix: Soil

% Solids: 86 Initial Calibration ID: HP2 02-AUG-2001

Date Received: 01-AUG-01 Date Extracted: 02-AUG-01 Date Analyzed: 06-AUG-01 08:54

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
TRPH-Florida PRO	5810	12000	120000	1	

Surrogate	Recovery	Control Limits	Qualifier
o-Terphenyl	96.7	47 - 142	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8021
AAB # : WG102110
Lab Name : Kemron Environmental Services
Contract # : Jeff Wilmoth
Base/Command :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
01-CT0-029-CS01-0731	L0108017-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe
Name: Dennis S. Tepe
Date: 07-AUG-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8021 Preparatory Method: 8021B AAB # : WG102110

Lab Name : Kemron Environmental Services Contract#: Jeff Wilmoth

Field Sample ID: 01-CT0-029-CS01-0731 Lab Sample ID: L0108017-01 Matrix: Soil

% Solids: 86 Initial Calibration ID: HP11 30-JUL-2001

Date Received: 01-AUG-01 Date Extracted: Date Analyzed: 01-AUG-01 23:07

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.345	1.0	0.345	.9	ND
Ethylbenzene	0.377	1.0	0.377	.9	ND
Methyl tert-butyl ether	0.806	1.0	0.806	.9	ND
Toluene	0.785	1.0	0.785	.9	ND
Xylenes, Total	0.806	1.0	0.806	.9	ND

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	103	34 - 175	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8021
AAB # : WG102316
Lab Name : Kemron Environmental Services
Contract # : Jeff Wilmoth
Base/Command :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
01-CT0-029-TB-0731	L0108017-02

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe
Name: Dennis S. Tepe
Date: 07-AUG-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8021 Preparatory Method: 8021B AAB # : WG102316

Lab Name : Kemron Environmental Services Contract#: Jeff Wilmoth

Field Sample ID: 01-CT0-029-TB-0731 Lab Sample ID: L0108017-02 Matrix: Water

% Solids: 0 Initial Calibration ID: HP12 20-JUL-2001

Date Received: 01-AUG-01 Date Extracted: Date Analyzed: 03-AUG-01 10:56

Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzene	0.078	1.0	0.078	1	ND
Ethylbenzene	0.078	1.0	0.078	1	ND
Methyl tert-butyl ether	0.242	1.0	0.242	1	ND
Toluene	0.283	1.0	2.10	1	
Xylenes, Total	0.221	1.0	0.221	1	ND

Surrogate	Recovery	Control Limits	Qualifier
a,a,a-Trifluorotoluene	108	70 – 130	

Internal Std	Qualifier

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA PACKAGE

Analytical Method : 8270
AAB # : WG102136
Lab Name : Kemron Environmental Services
Contract # : Jeff Wilmoth
Base/Command :
Prime Contractor : CCI

Field sample ID	Lab Sample ID
01-CT0-029-CS01-0731	L0108017-01

Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Signature: Dennis S Tepe
Name: Dennis S. Tepe
Date: 07-AUG-01
Title: Laboratory Manager

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG102136

Lab Name : Kemron Environmental Services Contract#: Jeff Wilmoth

Field Sample ID: 01-CT0-029-CS01-0731 Lab Sample ID: L0108017-01 Matrix: Soil

% Solids: 86 Initial Calibration ID: HFMS7 01-AUG-2001

Date Received: 01-AUG-01 Date Extracted: 01-AUG-01 Date Analyzed: 02-AUG-01 18:32

Concentration Units: ug/kg

Analyte	MDL	RL	Concentration	Dilution	Qualifier
1-Methylnaphthalene	2.91	5.8	2.91	1	ND
2-Methylnaphthalene	2.91	5.8	2.91	1	ND
Acenaphthene	2.91	5.8	2.91	1	ND
Acenaphthylene	2.91	5.8	2.91	1	ND
Anthracene	2.91	5.8	3.40	1	J
Benzo(a)anthracene	2.91	5.8	2.91	1	ND
Benzo(a)pyrene	2.91	5.8	28.0	1	
Benzo(b)fluoranthene	2.91	5.8	16.0	1	
Benzo(g,h,i)perylene	2.91	5.8	45.0	1	
Benzo(k)fluoranthene	2.91	5.8	5.40	1	J
Chrysene	2.91	5.8	12.0	1	
Dibenzo(a,h)anthracene	2.91	5.8	2.91	1	ND
Fluoranthene	2.91	5.8	9.80	1	
Fluorene	2.91	5.8	2.91	1	ND
Indeno(1,2,3-cd)pyrene	2.91	5.8	39.0	1	
Naphthalene	2.91	5.8	2.91	1	ND
Phenanthrene	2.91	5.8	6.80	1	
Pyrene	2.91	5.8	24.0	1	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

KEMRON ENVIRONMENTAL SERVICES
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method : 8270 Preparatory Method: 8270C\3545 AAB # : WG102136

Lab Name : Kemron Environmental Services Contract#: Jeff Wilmoth

Field Sample ID: 01-CT0-029-CS01-0731 Lab Sample ID: L0108017-01 Matrix: Soil

% Solids: 86 Initial Calibration ID: HPMS7

Date Received: 01-AUG-01 Date Extracted: 01-AUG-01 Date Analyzed: 02-AUG-01 18:32

Concentration Units: % Recovery

Analyte	MDL	RL	Concentration	Dilution	Qualifier

Surrogate	Recovery	Control Limits	Qualifier
2-Fluorobiphenyl	64.0	30 – 115	
Nitrobenzene-d5	62.4	23 – 120	
p-Terphenyl-d14	81.6	18 – 137	

Internal Std	Qualifier
1,4-Dichlorobenzene-d4	
Naphthalene-d8	
Acenaphthene-d10	
Phenanthrene-d10	
Chrysene-d12	
Perylene-d12	

Comments:

All results, MDLs, and RLs have been corrected to dry weight, where applicable.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **154282-19**

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 Bldg 190	154282	Kemron Environmental Svcs	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 7774812 FAX: (904) 7774262
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.):
Bldg 190 / VB #2	0029		Jeff Wilmoth / CH2M Hill Constructors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext 561 FAX:604-9282
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.):
Paul Malewicki	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 770-449-8800 Fax: 770-449-5477		

ANALYSES REQUIRED (Include Method Number)

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)	Volatiles by 8021B/8015	PAHs by 8310/8270C	TRPH by FL-PRO							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	01-CTO-029-CS02-0801	Confirmatory	S	08/01/01	8:30 11:50	III B	14	x	x	x									
2	01-CTO-029-VB#2-CS01-0801	Confirmatory	S	08/01/01	11:50	III B	14	x	x	x									
3	01-CTO-029-W-CS01-0801	Confirmatory	W	08/01/01	2:45	III B	14	x	x	x									
4	01-CTO-029-Blank	Equip Blank	W	08/01/01	2:45	III B	14	x	x	x									
5	01-CTO-029-Trip Blank	Trip Blank	W	08/01/01	2:50	III B	14	x											
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Scott Sloan / Paul Malewicki J.A. Jones Environmental Services		Ice Dated Seals intact Cooler Temp 2

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malewicki Paul Malewicki	8/1/01	17:30	Printed Name and Signature: Federal Express 8285321643361	8/1/01	17:30
Printed Name and Signature: Brenda Gregory / Brenda Gregory	8/2/01	1211	Printed Name and Signature:		
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

TEST CERTIFICATE
KEMRON Environmental Services
109 Starlite Park
Marietta, Ohio 45750
Phone: (740) 373-4071

CCI/ATL
115 Perimeter Center Place
N.E. Suite 700
Atlanta, GA 30346
Attention: Jeff Wilmoth

PO Number:
Account Number: CCI-630

Login #: L0108067
Report Date: 08/09/01
Work ID: NAS CECIL FIELD
Date Received: 08/02/01

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
L0108067-01	01-CT0-029-CS02-0801	L0108067-02	01-CT0-029-VB#2-CS01-0801
L0108067-03	01-CT0-029-W-CS01-0801	L0108067-04	01-CTO-029-BLANK
L0108067-05	01-CTO-029-TRIP BLANK		

All results on solids/sludges are reported on a dry weight basis, where applicable, unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

NYSDOH ELAP ID: 10861

David L. Bumgarner

Certified By
David L. Bumgarner

KEMRON ENVIRONMENTAL SERVICES

Login #L0108067
August 9, 2001 04:42 pm

KEMRON ENVIRONMENTAL SERVICES

Lab Sample ID: L0108067-01
Client Sample ID: 01-CT0-029-CS02-0801
Site/Work ID: NAS CECIL FIELD

Matrix: Soil
Collected: 08/01/01 08:50

% Solid: 82
COC Info: 154282/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids.....	weight %	82		1.0	1	N/A	TMM	08/03/01	12:30	D2216-90

Product: FLA-PRO - TRPH-Florida PRO

Lab Sample ID: L0108067-01
Client Sample ID: 01-CT0-029-CS02-0801
Site/Work ID: NAS CECIL FIELD
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 08/02/01
Analysis Date: 08/06/01 Time: 11:03

Dil. Type: N/A
COC Info: 154282/

Date Collected: 08/01/01

Instrument: HP2
Analyst: HV
Lab File ID: 2G14185

Sample Weight: N/A
Extract Volume: N/A

% Solid: 82

Method: 8015 MOD\3550B
Run ID: R174072
Batch : WG102223

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	TRPH-Florida PRO.....	ug/kg	22000		12000	.95
	SURROGATES- In Percent Recovery:					
	o-Terphenyl.....	121		(47 - 142%)		

RL = Reporting Limit

Login #L0108067
August 9, 2001 04:42 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827-PAHL - Polynuclear Aromatics - Low Level

Lab Sample ID: L0108067-01
Client Sample ID: 01-CT0-029-CS02-0801
Site/Work ID: NAS CECIL FIELD
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: 08/02/01
Analysis Date: 08/06/01 Time: 19:56

Dil. Type: N/A
COC Info: 154282/

Date Collected: 08/01/01

Instrument: HPMS7
Analyst: RDC
Lab File ID: 7M13620

Sample Weight: N/A
Extract Volume: N/A

% Solid: 82

Method: 8270C\3545
Run ID: R174662
Batch : WG102287

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
91-20-3	Naphthalene	ug/kg		ND	3000	498
208-96-8	Acenaphthylene	ug/kg		ND	3000	498
83-32-9	Acenaphthene	ug/kg	8300		3000	498
86-73-7	Fluorene	ug/kg	8000		3000	498
85-01-8	Phenanthrene	ug/kg	69000		3000	498
120-12-7	Anthracene	ug/kg	21000		3000	498
206-44-0	Fluoranthene	ug/kg	140000		3000	498
129-00-0	Pyrene	ug/kg	100000		3000	498
56-55-3	Benzo(a)anthracene	ug/kg	42000		3000	498
218-01-9	Chrysene	ug/kg	38000		3000	498
205-99-2	Benzo(b)fluoranthene	ug/kg	21000		3000	498
207-08-9	Benzo(k)fluoranthene	ug/kg	21000		3000	498
50-32-8	Benzo(a)pyrene	ug/kg	21000		3000	498
193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	5700		3000	498
53-70-3	Dibenzo(a,h)anthracene	ug/kg		ND	3000	498
191-24-2	Benzo(g,h,i)perylene	ug/kg	5000		3000	498
90-12-0	1-Methylnaphthalene	ug/kg		ND	3040	498
91-57-6	2-Methylnaphthalene	ug/kg		ND	3040	498

SURROGATES- In Percent Recovery:

Nitrobenzene-d5	DL	(23 - 120%)
2-Fluorobiphenyl	DL	(30 - 115%)
p-Terphenyl-d14	DL	(18 - 137%)

RL = Reporting Limit

Login #L0108067
August 9, 2001 04:42 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 802-BTMX1 - Volatile Organics (BETX)

Lab Sample ID: L0108067-01
Client Sample ID: 01-CT0-029-CS02-0801
Site/Work ID: NAS CECIL FIELD
Matrix: Soil

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 08/03/01 Time: 02:52

Dil. Type: N/A
COC Info: 154282/

Date Collected: 08/01/01

Instrument: HP11
Analyst: CHN
Lab File ID: 11G10587

Sample Weight: N/A
Extract Volume: N/A

% Solid: 82

Method: 8021B
Run ID: R173028
Batch : WG102187

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene	ug/kg		ND	1.2	.95
100-41-4	Ethylbenzene	ug/kg		ND	1.2	.95
1634-04-4	Methyl tert-butyl ether	ug/kg		ND	1.2	.95
108-88-3	Toluene	ug/kg		ND	1.2	.95
1330-20-7	Xylenes, Total	ug/kg		ND		.95

SURROGATES- In Percent Recovery:

a,a,a-Trifluorotoluene	102	(34 - 175%)

Lab Sample ID: L0108067-02
Client Sample ID: 01-CT0-029-VB#2-CS01-0801
Site/Work ID: NAS CECIL FIELD

Matrix: Soil
Collected: 08/01/01 11:50

% Solid: 85
COC Info: 154282/

Analyte	Units	Result	Qualifiers	RL	Dil	Type	Analyst	Analysis Date	Time	Method
Percent Solids	weight %	85		1.0	1	N/A	TMM	08/03/01	12:30	D2216-90

RL - Reporting Limit

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-22

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 103rd Street	154282	GPL Laboratories, LLLP Laura Petrick	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 7774812,FAX: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER: 3273	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
CTO 029 Confirmation Samples	0029		Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561
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	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 301-926-6802 Fax: 301-840-1209		

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)	VOL 8260B/5035	PAH 8270C/6010	TRPH FL-PRO									SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-190-CS03-S-0816	Confirmation Sample	S	08/16/01	13:35	III C	14		X										Grab		
2	029-190-CS04-S-0816	Confirmation Sample	S	08/16/01	13:40	III C	14		X										Grab		
3	029-190-CS05-S-0816	Confirmation Sample	S	08/16/01	13:30	III C	14		X										Grab		
4																					
5																					
6																					
7																					
8																					
9																					
10																					

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Dave Keul / Paul Malewicki J.A. Jones Environmental Services		

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
P. Malewicki	8/9/01		Federal Express	8/9/01	
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
				8/17/01	13:25

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

Form CC 001, Rev 02/00

000019

10000

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID 029-190-CS03-S-0816
GPL ID: 108127-004-01-1/1
Matrix: Soil
Date Collected: Aug-16-2001
Date Received: Aug-17-2001

Prep Method: SW3550
Prep Date: 08/21/01
Prep Time: 10:18

Analytical Method: SW8270CPAH
Date Analyzed: Sep-07-2001
Time Analyzed 21:34

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1-Methylnaphthalene	BQL	31.4	ug/kg	U	1
Benzo(a)pyrene	BQL	35.2	ug/kg	U	1
2-Methylnaphthalene	BQL	40.2	ug/kg	U	1
Benzo(a)anthracene	BQL	40.2	ug/kg	U	1
Acenaphthene	BQL	51.5	ug/kg	U	1
Phenanthrene	BQL	51.5	ug/kg	U	1
Chrysene	BQL	54	ug/kg	U	1
Naphthalene	BQL	55.3	ug/kg	U	1
Anthracene	BQL	61.5	ug/kg	U	1
Fluorene	BQL	64	ug/kg	U	1
Indeno(1,2,3-c,d)Pyrene	BQL	65.3	ug/kg	U	1
Benzo(k)fluoranthene	BQL	67.8	ug/kg	U	1
Dibenz(a,h)Anthracene	BQL	70.3	ug/kg	U	1
Pyrene	BQL	85.4	ug/kg	U	1
Benzo(b)fluoranthene	BQL	87.9	ug/kg	U	1
Benzo(g,h,i)perylene	BQL	87.9	ug/kg	U	1
Fluoranthene	BQL	91.7	ug/kg	U	1
Acenaphthylene	BQL	138	ug/kg	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID 029-190-CS04-S-0816
GPL ID: 108127-005-01-1/1
Matrix: Soil
Date Collected: Aug-16-2001
Date Received: Aug-17-2001

Prep Method: SW3550
Prep Date: 08/21/01
Prep Time: 10:18

Analytical Method: SW8270CPAH
Date Analyzed: Sep-08-2001
Time Analyzed 02:14

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1-Methylnaphthalene	BQL	29.1	ug/kg	U	1
Benzo(a)pyrene	968	32.6	ug/kg		1
2-Methylnaphthalene	BQL	37.2	ug/kg	U	1
Benzo(a)anthracene	1420	37.2	ug/kg		1
Acenaphthene	BQL	47.7	ug/kg	U	1
Phenanthrene	603	47.7	ug/kg		1
Chrysene	1020	50.1	ug/kg		1
Naphthalene	BQL	51.2	ug/kg	U	1
Anthracene	254	57	ug/kg		1
Fluorene	BQL	59.4	ug/kg	U	1
Indeno(1,2,3-c,d)Pyrene	304	60.5	ug/kg		1
Benzo(k)fluoranthene	694	62.9	ug/kg		1
Dibenz(a,h)Anthracene	BQL	65.2	ug/kg	U	1
Pyrene	2860	79.2	ug/kg		1
Benzo(b)fluoranthene	1120	81.5	ug/kg		1
Benzo(g,h,i)perylene	293	81.5	ug/kg		1
Fluoranthene	2620	85	ug/kg		1
Acenaphthylene	BQL	128	ug/kg	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID 029-190-CS05-S-0816
GPL ID: 108127-006-01-1/1
Matrix: Soil
Date Collected: Aug-16-2001
Date Received: Aug-17-2001

Prep Method: SW3550
Prep Date: 08/21/01
Prep Time: 10:18

Analytical Method: SW8270CPAH
Date Analyzed: Sep-07-2001
Time Analyzed 22:30

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1-Methylnaphthalene	BQL	31.6	ug/kg	U	1
Benzo(a)pyrene	BQL	35.4	ug/kg	U	1
2-Methylnaphthalene	BQL	40.5	ug/kg	U	1
Benzo(a)anthracene	BQL	40.5	ug/kg	U	1
Acenaphthene	BQL	51.9	ug/kg	U	1
Phenanthrene	BQL	51.9	ug/kg	U	1
Chrysene	BQL	54.4	ug/kg	U	1
Naphthalene	BQL	55.7	ug/kg	U	1
Anthracene	BQL	62	ug/kg	U	1
Fluorene	BQL	64.5	ug/kg	U	1
Indeno(1,2,3-c,d)Pyrene	BQL	65.8	ug/kg	U	1
Benzo(k)fluoranthene	BQL	68.3	ug/kg	U	1
Dibenz(a,h)Anthracene	BQL	70.9	ug/kg	U	1
Pyrene	BQL	86.1	ug/kg	U	1
Benzo(b)fluoranthene	BQL	88.6	ug/kg	U	1
Benzo(g,h,i)perylene	BQL	88.6	ug/kg	U	1
Fluoranthene	BQL	92.4	ug/kg	U	1
Acenaphthylene	BQL	139	ug/kg	U	1

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-21

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 103rd Street	154282	GPL Laboratories, LLLP Laura Petrick	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 7774812,FAX: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER: 3273	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
CTO 029 Confirmation Samples	0029		Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561
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	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 301-926-6802 Fax: 301-840-1209		

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)	VOL 8260B/5035	PAH 8270C/6010	TRPH FL-PRO									SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-858-S-0816	Confirmation Sample	S	08/16/01	11:35	III C	14	X	X	X									Grab	Tank Closure	
2	Trip Blank	Trip Blank	W					X													
3	Temp Blank	Temp Blank	W																		
4																					
5																					
6																					
7																					
8																					
9																					
10																					

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Dave Keul / Paul Malewicki J.A. Jones Environmental Services		

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
P. Malewicki	8/16/01		Federal Express 828532163321	8/16/01	
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		
				8/17	13:25

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

Form CC1001, Rev 02/00

000017

108127

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID TRIP BLANK
GPL ID: 108127-002-01-1/2
Matrix: Water
Date Collected: 08/16/01
Date Received: 08/17/01

Prep Method: SW5030B
Prep Date: 08/21/01
Prep Time: 06:58
Prep Batch 13582

Analytical Method: SW8260B_TCL
Date Analyzed: 08/21/01
Time Analyzed 12:06
Analysis Batch 11148

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1,1,1-Trichloroethane	BQL	5	ug/L	U	1
1,1,2,2-Tetrachloroethane	BQL	5	ug/L	U	1
1,1,2-Trichloroethane	BQL	5	ug/L	U	1
1,1-Dichloroethane	BQL	5	ug/L	U	1
1,1-Dichloroethene	BQL	5	ug/L	U	1
1,2-Dichloroethane	BQL	5	ug/L	U	1
1,2-Dichloropropane	BQL	5	ug/L	U	1
2-Butanone	BQL	10	ug/L	U	1
2-Hexanone	BQL	10	ug/L	U	1
4-Methyl-2-Pentanone	BQL	10	ug/L	U	1
Acetone	BQL	10	ug/L	U	1
Benzene	BQL	5	ug/L	U	1
Bromodichloromethane	BQL	5	ug/L	U	1
Bromoform	BQL	5	ug/L	U	1
Bromomethane	BQL	10	ug/L	U	1
Carbon Disulfide	BQL	5	ug/L	U	1
Carbon Tetrachloride	BQL	5	ug/L	U	1
Chlorobenzene	BQL	5	ug/L	U	1
Chloroethane	BQL	10	ug/L	U	1
Chloroform	BQL	5	ug/L	U	1
Chloromethane	BQL	10	ug/L	U	1
Dibromochloromethane	BQL	5	ug/L	U	1
Ethylbenzene	BQL	5	ug/L	U	1
MTBE	BQL	5	ug/L	U	1
Methylene Chloride	16.2	10	ug/L	B	1
Styrene	BQL	5	ug/L	U	1
Tetrachloroethene	2.42	5	ug/L	J	1
Toluene	BQL	5	ug/L	U	1
Trichloroethene	BQL	5	ug/L	U	1
Vinyl Chloride	BQL	10	ug/L	U	1
cis-1,2-Dichloroethene	BQL	5	ug/L	U	1
cis-1,3-Dichloropropene	BQL	5	ug/L	U	1
m,p-Xylenes	BQL	5	ug/L	U	1
o-Xylene	BQL	5	ug/L	U	1
trans-1,2-dichloroethene	BQL	5	ug/L	U	1
trans-1,3-dichloropropene	BQL	5	ug/L	U	1

CH2M HILL Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9283

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 154282-26

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 103rd Street	154282	GPL Laboratories, LLLP Laura Petrick	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 7774812,FAX: (904) 7774262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER: 3273	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No., and Fax No.):
CTO 029 Confirmation Samples	0029		Christelle Newsome/ CH2M Hill Constructors, Inc. (770) 604-9282(FAX)	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561
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.):
Paul Malewicki	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 301-926-6802 Fax: 301-840-1209		

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)	VOL 8260B/5035	PAH 8270C/8310	TRPH FL-PRO	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-190-CS06-S-0919	Confirmation Sample	S	09/19/01	9:45	III C	3		1		Grab		
2	029-190-CS07-S-0918	Confirmation Sample	S	09/18/01	3:15	III C	3		1		Grab		
3	029-TB-W-0918	Trip Blank	W				3		3				
4	Temp Blank	Temp Blank	W										
5													
6													
7													
8													
9													
10													

SAMPLER(S) AND COMPANY: (please print)
Paul Malewicki
J.A. Jones Environmental Services

COURIER AND SHIPPING NUMBER:

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malewicki Paul Malewicki	9/19/01		Printed Name and Signature: Federal Express 8303238726 23	9/19/01	
Printed Name and Signature:			Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature: Clayton Clayton	9/20/01	09:00

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

Form CC1001, Rev 02/00

6 00

10900

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID 029-190-CS06-S-0919
GPL ID: 109101-001-01-1/1
Matrix: Soil
Date Collected: 09/19/01
Date Received: 09/20/01

Prep Method:
Prep Date:
Prep Time:
Prep Batch 14095

Analytical Method: SW8270-LL
Date Analyzed: 09/21/01
Time Analyzed 20:00
Analysis Batch 11875

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1-Methylnaphthalene	BQL	4.11	ug/kg	U	1
2-Methylnaphthalene	BQL	4.11	ug/kg	U	1
Acenaphthene	BQL	4.11	ug/kg	U	1
Acenaphthylene	6.17	4.11	ug/kg		1
Anthracene	BQL	4.11	ug/kg	U	1
Benzo(a)anthracene	14.4	4.11	ug/kg		1
Benzo(a)pyrene	18.9	4.11	ug/kg		1
Benzo(b)fluoranthene	23.0	4.11	ug/kg		1
Benzo(g,h,i)perylene	17.7	4.11	ug/kg		1
Benzo(k)fluoranthene	11.5	4.11	ug/kg		1
Chrysene	15.6	4.11	ug/kg		1
Dibenz(a,h)Anthracene	BQL	4.11	ug/kg	U	1
Fluoranthene	15.6	4.11	ug/kg		1
Fluorene	BQL	4.11	ug/kg	U	1
Indeno(1,2,3-c,d)Pyrene	16.0	4.11	ug/kg		1
Naphthalene	BQL	4.11	ug/kg	U	1
Phenanthrene	4.53	4.11	ug/kg		1
Pyrene	11.5	4.11	ug/kg		1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID 029-190-CS07-S-0918
GPL ID: 109101-002-01-1/1
Matrix: Soil
Date Collected: 09/18/01
Date Received: 09/20/01

Prep Method: SW3550-LL
Prep Date: 09/20/01
Prep Time: 12:00
Prep Batch 14095

Analytical Method: SW8270-LL
Date Analyzed: 09/21/01
Time Analyzed 22:23
Analysis Batch 11875

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
1-Methylnaphthalene	BQL	3.69	ug/kg	U	1
2-Methylnaphthalene	BQL	3.69	ug/kg	U	1
Acenaphthene	BQL	3.69	ug/kg	U	1
Acenaphthylene	BQL	3.69	ug/kg	U	1
Anthracene	BQL	3.69	ug/kg	U	1
Benzo(a)anthracene	4.06	3.69	ug/kg		1
Benzo(a)pyrene	7.75	3.69	ug/kg		1
Benzo(b)fluoranthene	8.85	3.69	ug/kg		1
Benzo(g,h,i)perylene	BQL	3.69	ug/kg	U	1
Benzo(k)fluoranthene	BQL	3.69	ug/kg	U	1
Chrysene	4.43	3.69	ug/kg		1
Dibenz(a,h)Anthracene	BQL	3.69	ug/kg	U	1
Fluoranthene	5.16	3.69	ug/kg		1
Fluorene	BQL	3.69	ug/kg	U	1
Indeno(1,2,3-c,d)Pyrene	BQL	3.69	ug/kg	U	1
Naphthalene	BQL	3.69	ug/kg	U	1
Phenanthrene	BQL	3.69	ug/kg	U	1
Pyrene	5.53	3.69	ug/kg		1

Appendix F

Analytical Laboratory Reports for Confirmatory Groundwater Sample

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 154282-19

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORT/BILL TO: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No., and Fax No.):
N.A.S. Cecil Field Bldg 190	154282	Kemron Environmental Svcs	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 777-4812 FAX: (904) 777-4262
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORT/BILL TO: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No., and Fax No.):
Bldg 190 / VB #2	0029		Jeff Wilmoth / CH2M Hill Constructors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770) 604-9182 Ext 561 FAX: 604-9282
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORT/BILL TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.):
Paul Malewicki	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 770-449-8800 Fax: 770-449-5477		

ANALYSES REQUIRED (Include Method Number)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED (Eastern Time)	DATA REQ LEVEL (see codes on back)	TAT (calendar days)	Validation by MASERFROS	Validation by MASLERFRC	TRH1 by FL-PRO								SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	01-CTO-029-CS02-0001	Confirmatory	S	08/01/01	[illegible]	III B	14	x	x	x										
2	01-CTO-029-VB#2-CS01-0001	Confirmatory	S	08/01/01	11:50	III B	14	x	x	x										
3	01-CTO-029-W-CS01-0001	Confirmatory	W	08/01/01	2:45	III B	14	x	x	x										
4	01-CTO-029-Blank	Equip Blank	W	08/01/01	2:45	III B	14	x	x	x										
5	01-CTO-029-Trip Blank	Trip Blank	W	08/01/01	2:50	III B	14	x												
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT: Ice Sealed Seals intact Cooler Temp 2 [illegible]

SAMPLER(S) AND COMPANY: (please print)
Scott Sloan / Paul Malewicki
J.A. Jones Environmental Services

COURIER AND SHIPPING NUMBER:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: P. Malewicki [signature]	8/1/01	17:30	Printed Name and Signature: Federal Express 8285 3216 4361	8/1/01	17:30
Printed Name and Signature: Brenda Gregory / Brenda Gregory	8/2/01	12:11	Printed Name and Signature:		
Printed Name and Signature:			Printed Name and Signature:		

Form CC300, Rev 02/00

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

Login #L0108067
August 9, 2001 04:42 pm

KEMRON ENVIRONMENTAL SERVICES

Product: FLA-PRO - TRPH-Florida PRO

Lab Sample ID: L0108067-03
Client Sample ID: 01-CT0-029-W-CS01-0801
Site/Work ID: NAS CECIL FIELD
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 08/02/01
Analysis Date: 08/03/01 Time: 16:18

Dil. Type: N/A
COC Info: 154282/
Date Collected: 08/01/01
Instrument: HP2
Analyst: HV
Lab File ID: 2G14168

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A
Method: 8015 MOD\3510C
Run ID: R173678
Batch : WG102221

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	TRPH-Florida PRO	ug/L		ND	500	1
	SURROGATES- In Percent Recovery:					
	o-Terphenyl		80.3	(49 - 174%)		

Product: 827-PAHL - Polynuclear Aromatics - Low Level

Lab Sample ID: L0108067-03
Client Sample ID: 01-CT0-029-W-CS01-0801
Site/Work ID: NAS CECIL FIELD
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 08/06/01
Analysis Date: 08/06/01 Time: 14:37

Dil. Type: N/A
COC Info: 154282/
Date Collected: 08/01/01
Instrument: HPMS7
Analyst: RDC
Lab File ID: 7M13608

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A
Method: 8270C\3510C
Run ID: R174647
Batch : WG102387

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
91-20-3	Naphthalene	ug/L		ND	0.10	1
208-96-8	Acenaphthylene	ug/L		ND	0.10	1
83-32-9	Acenaphthene	ug/L		ND	0.10	1
86-73-7	Fluorene	ug/L		ND	0.10	1
85-01-8	Phenanthrene	ug/L		ND	0.10	1
120-12-7	Anthracene	ug/L		ND	0.10	1
206-44-0	Fluoranthene	ug/L		ND	0.10	1
129-00-0	Pyrene	ug/L		ND	0.10	1
56-55-3	Benzo(a)anthracene	ug/L		ND	0.10	1
218-01-9	Chrysene	ug/L		ND	0.10	1
205-99-2	Benzo(b)fluoranthene	ug/L		ND	0.10	1
207-08-9	Benzo(k)fluoranthene	ug/L		ND	0.10	1
50-32-8	Benzo(a)pyrene	ug/L		ND	0.10	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/L		ND	0.10	1

RL = Reporting Limit

Login #L0108067
August 9, 2001 04:42 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827-PAHL - Polynuclear Aromatics - Low Level

Lab Sample ID: L0108067-03
Client Sample ID: 01-CT0-029-W-CS01-0801
Site/Work ID: NAS CECIL FIELD
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 08/06/01
Analysis Date: 08/06/01 Time: 14:37

Dil. Type: N/A
COC Info: 154282/
Date Collected: 08/01/01

Instrument: HPMS7
Analyst: RDC
Lab File ID: 7M13608

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

Method: 8270C\3510C
Run ID: R174647
Batch : WG102387

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53-70-3	Dibenzo(a,h)anthracene	ug/L		ND	0.10	1
191-24-2	Benzo(g,h,i)perylene	ug/L		ND	0.10	1
90-12-0	1-Methylnaphthalene	ug/L		ND	0.10	1
91-57-6	2-Methylnaphthalene	ug/L		ND	0.10	1

SURROGATES- In Percent Recovery:

Nitrobenzene-d5	38.0		(35 - 114%)
2-Fluorobiphenyl	33.6	*	(43 - 116%)
p-Terphenyl-d14	34.8		(33 - 141%)

Product: 802-BTME1 - Volatile Organics (BETX)

Lab Sample ID: L0108067-03
Client Sample ID: 01-CT0-029-W-CS01-0801
Site/Work ID: NAS CECIL FIELD
Matrix: Water

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 08/03/01 Time: 09:18

Dil. Type: N/A
COC Info: 154282/
Date Collected: 08/01/01

Instrument: HP12
Analyst: CBN
Lab File ID: 12G08772

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

Method: 8021B
Run ID: R173658
Batch : WG102316

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene	ug/L		ND	1.0	1
100-41-4	Ethylbenzene	ug/L		ND	1.0	1
1634-04-4	Methyl tert-butyl ether	ug/L		ND	1.0	1
108-88-3	Toluene	ug/L		ND	1.0	1
1330-20-7	Xylenes, Total	ug/L		ND		1

SURROGATES- In Percent Recovery:

a,a,a-Trifluorotoluene	110	(70 - 130%)

RL = Reporting Limit

Login #L0108067
August 9, 2001 04:42 pm

KEMRON ENVIRONMENTAL SERVICES

Product: FLA-PRO - TRPH-Florida PRO

Lab Sample ID: L0108067-04
Client Sample ID: 01-CTO-029-BLANK
Site/Work ID: NAS CECIL FIELD
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 08/02/01
Analysis Date: 08/03/01 Time: 16:33

Dil. Type: N/A
COC Info: 154282/
Date Collected: 08/01/01
Instrument: HP2
Analyst: HV
Lab File ID: 2G14169

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A
Method: 8015 MOD\3510C
Run ID: R173678
Batch : WG102221

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
	TRPH-Florida PRO	ug/L		ND	500	1
	SURROGATES- In Percent Recovery:					
	o-Terphenyl		96.9	(49 - 174%)		

Product: 827-PAHL - Polynuclear Aromatics - Low Level

Lab Sample ID: L0108067-04
Client Sample ID: 01-CTO-029-BLANK
Site/Work ID: NAS CECIL FIELD
Matrix: Water

TCLP Extract Date: N/A
Extract Date: 08/06/01
Analysis Date: 08/06/01 Time: 15:03

Dil. Type: N/A
COC Info: 154282/
Date Collected: 08/01/01
Instrument: HPMS7
Analyst: RDC
Lab File ID: 7M13609

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A
Method: 8270C\3510C
Run ID: R174648
Batch : WG102387

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
91-20-3	Naphthalene	ug/L		ND	0.10	1
208-96-8	Acenaphthylene	ug/L		ND	0.10	1
83-32-9	Acenaphthene	ug/L		ND	0.10	1
86-73-7	Fluorene	ug/L		ND	0.10	1
85-01-8	Phenanthrene	ug/L		ND	0.10	1
120-12-7	Anthracene	ug/L		ND	0.10	1
206-44-0	Fluoranthene	ug/L		ND	0.10	1
129-00-0	Pyrene	ug/L		ND	0.10	1
56-55-3	Benzo(a)anthracene	ug/L		ND	0.10	1
218-01-9	Chrysene	ug/L		ND	0.10	1
205-99-2	Benzo(b)fluoranthene	ug/L		ND	0.10	1
207-08-9	Benzo(k)fluoranthene	ug/L		ND	0.10	1
50-32-8	Benzo(a)pyrene	ug/L		ND	0.10	1
193-39-5	Indeno(1,2,3-cd)pyrene	ug/L		ND	0.10	1

RL = Reporting Limit

Login #L0108067
August 9, 2001 04:42 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 827-PAHL - Polynuclear Aromatics - Low Level

Lab Sample ID: L0108067-04
Client Sample ID: 01-CTO-029-BLANK
Site/Work ID: NAS CECIL FIELD
Matrix: Water

Dil. Type: N/A
COC Info: 154282/
Date Collected: 08/01/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: 08/06/01
Analysis Date: 08/06/01 Time: 15:03

Instrument: HPMS7
Analyst: RDC
Lab File ID: 7M13609

Method: 8270C\3510C
Run ID: R174648
Batch : WG102387

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
53-70-3	Dibenzo(a,h)anthracene	ug/L		ND	0.10	1
191-24-2	Benzo(g,h,i)perylene	ug/L		ND	0.10	1
90-12-0	1-Methylnaphthalene	ug/L		ND	0.10	1
91-57-6	2-Methylnaphthalene	ug/L		ND	0.10	1

SURROGATES- In Percent Recovery:

Nitrobenzene-d5	54.8	(35 - 114%)
2-Fluorobiphenyl	51.2	(43 - 116%)
p-Terphenyl-d14	87.6	(33 - 141%)

Product: 802-BTMX1 - Volatile Organics (BETX)

Lab Sample ID: L0108067-04
Client Sample ID: 01-CTO-029-BLANK
Site/Work ID: NAS CECIL FIELD
Matrix: Water

Dil. Type: N/A
COC Info: 154282/
Date Collected: 08/01/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 08/03/01 Time: 09:51

Instrument: HP12
Analyst: CBN
Lab File ID: 12G08773

Method: 8021B
Run ID: R173659
Batch : WG102316

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene	ug/L		ND	1.0	1
100-41-4	Ethylbenzene	ug/L		ND	1.0	1
1634-04-4	Methyl tert-butyl ether	ug/L		ND	1.0	1
108-88-3	Toluene	ug/L		ND	1.0	1
1330-20-7	Xylenes, Total	ug/L		ND		1

SURROGATES- In Percent Recovery:

a,a,a-Trifluorotoluene	107	(70 - 130%)

RL = Reporting Limit

Login #L0108067
August 9, 2001 04:42 pm

KEMRON ENVIRONMENTAL SERVICES

Product: 802-BTME1 - Volatile Organics (BETX)

Lab Sample ID: L0108067-05
Client Sample ID: 01-CTO-029-TRIP BLANK
Site/Work ID: NAS CECIL FIELD
Matrix: Water

Dil. Type: N/A
COC Info: 154282/
Date Collected: 08/01/01

Sample Weight: N/A
Extract Volume: N/A
% Solid: N/A

TCLP Extract Date: N/A
Extract Date: N/A
Analysis Date: 08/03/01 Time: 10:24

Instrument: HP12
Analyst: CBN
Lab File ID: 12G08774

Method: 8021B
Run ID: R173660
Batch : WG102316

CAS #	Compound	Units	Result	Qualifiers	RL	Dilution
71-43-2	Benzene	ug/L		ND	1.0	1
100-41-4	Ethylbenzene	ug/L		ND	1.0	1
1634-04-4	Methyl tert-butyl ether	ug/L		ND	1.0	1
108-88-3	Toluene	ug/L		ND	1.0	1
1330-20-7	Xylenes, Total	ug/L		ND		1

SURROGATES- In Percent Recovery:

a,a,a-Trifluorotoluene	113	(70 - 130%)

RL = Reporting Limit

KEMRON ENVIRONMENTAL SERVICES OVL SEMI-VOLATILES QUALITY CONTROL SUMMARY - 8270-PAHL

ANAL. WORK GRP : WG102267
METHOD : 8270
MATRIX : WATER
CONCENTRATION UNITS : ug/ml
PREP. WORK GRP : WS102279

EXT DATE : 08/08/01
BENCH SPREET : V100P05
BLK FLNM : 7M12605
LCS FLNM : 7M12606

RUN DATE : 08/08/01
SMPL ID : NA
SMPL FLNM : NA
MS FLNM : NA
MSD FLNM : NA

INSTRUMENT : HPMS7
ANALYST : RDC

ANALYTE	RDL	SPIKE AMT	BLANK	LCS	SAMPLE	MS	MSD	BLANK	LCS	SAMPLE	MS	MSD	LCL	UCL	RPD	LCL	S	T	B	D	C
		CONCENTRATION , ug / ml						PERCENT RECOVERY , %							RESULTS		RESULTS LIMITS				
NAPHTHALENE	0.1	1.0	ND	0.36	NA	NA	NA	NS	36.0	NS	NA	NA	27	107	NA	46					
2-METHYLNAPHTHALENE	0.1	1.0	ND	0.38	NA	NA	NA	NS	38.0	NS	NA	NA	27	109	NA	46					
1-METHYLNAPHTHALENE	0.1	1.0	ND	0.37	NA	NA	NA	NS	37.0	NS	NA	NA	40	132	NA	46		L			
ACENAPHTHYLENE	0.1	1.0	ND	0.39	NA	NA	NA	NS	39.0	NS	NA	NA	27	130	NA	46					
ACENAPHTHENE	0.1	1.0	ND	0.39	NA	NA	NA	NS	39.0	NS	NA	NA	35	107	NA	46					
FLUORENE	0.1	1.0	ND	0.42	NA	NA	NA	NS	42.0	NS	NA	NA	39	111	NA	46					
PHENANTHRENE	0.1	1.0	ND	0.50	NA	NA	NA	NS	50.0	NS	NA	NA	50	126	NA	46					
ANTHRACENE	0.1	1.0	ND	0.64	NA	NA	NA	NS	64.0	NS	NA	NA	62	130	NA	46					
FLUORANTHENE	0.1	1.0	ND	0.74	NA	NA	NA	NS	74.0	NS	NA	NA	50	127	NA	46					
PYRENE	0.1	1.0	ND	0.74	NA	NA	NA	NS	74.0	NS	NA	NA	65	127	NA	46					
BENZO(A)ANTHRACENE	0.1	1.0	ND	0.74	NA	NA	NA	NS	74.0	NS	NA	NA	50	124	NA	46					
CHRYSENE	0.1	1.0	ND	0.75	NA	NA	NA	NS	75.0	NS	NA	NA	67	170	NA	46					
BENZO(B)FLUORANTHENE	0.1	1.0	ND	0.69	NA	NA	NA	NS	69.0	NS	NA	NA	40	124	NA	46					
BENZO(K)FLUORANTHENE	0.1	1.0	ND	0.66	NA	NA	NA	NS	66.0	NS	NA	NA	35	127	NA	46					
BENZO(A)PYRENE	0.1	1.0	ND	0.71	NA	NA	NA	NS	71.0	NS	NA	NA	50	125	NA	46					
INDENO(1,2,3-CD)PYRENE	0.1	1.0	ND	0.46	NA	NA	NA	NS	46.0	NS	NA	NA	43	140	NA	46					
DIBENZO(A,H)ANTHRACENE	0.1	1.0	ND	0.31	NA	NA	NA	NS	31.0	NS	NA	NA	37	137	NA	46		L			
BENZO(G,H,I)PERYLENE	0.1	1.0	ND	0.40	NA	NA	NA	NS	40.0	NS	NA	NA	43	143	NA	46		L			
SURROGATES																					
NITROBENZENE - D5		2.5	1.69	0.94	NA	NA	NA	43.6	37.6	NA	NA	NA	35	114			L	L			
2-FLUOROBIPHENYL		2.5	1.38	0.91	NA	NA	NA	40.8	36.4	NA	NA	NA	43	116							
P-TERPHENYL - D14		2.5	2.15	1.80	NA	NA	NA	86.6	72.0	NA	NA	NA	33	141							

NOTES & DEFINITIONS :

RDL=REPORTING DETECTION LIMIT
ND = NOT DETECTED

NS = NOT SPIKED

L= below QC limit
H=above QC limit

Appendix G

Waste Profile

REPUBLIC SERVICES, INC.

App. #_____

Special Waste Acceptance Application

A. GENERATOR INFORMATION

1. Generator Name: U.S. NAVY
2. Site Location: CECIL FIELD
3. City: JACKSONVILLE
   State: FL. Zip: 32215
4. Phone: (904) 777-4812
5. Fax: (904) 777-4262
6. Contact PAUL MALEWICKI
7. Title Project Engineer

B. CUSTOMER INFORMATION

1. Customer Name: CCI
2. Address: 6219 Authority AV
3. City: JACKSONVILLE
   State: FL Zip: 32215
4. Phone: (904) 777-4812
5. Fax: (904) 777-4262
6. Contact: Colleen Kurtz
7. Title Contract Administrator

C. WASTE STREAM INFORMATION

1. Common Name of Waste: Petroleum Contaminated Soil
2. Detailed Description of Process Generating Waste and Material Description: Leaking Tank.
3. Industrial Generator [ ]Yes [X]No If yes, please list the SIC Code_____
4. Municipal Generator [ ]Yes [X]No
5. Physical State at 70° [X]Solid [ ]Semisolid [ ]Liquid [ ]Powder [ ]Combination
6. Odor: [ ]None [X]Mild [ ]Semisolid (describe)_____
7. Color Brown 8. Flash Point + 200 9. Viscosity 1
10. Reactive [ ]Yes [X]No With: _____ 11. pH Range: 6.8-7.5
12. Free Liquid: [ ]Yes [X]No 13. Water Content: N/A % by Water
14. Is the analytical attached derived from testing a representative sample in accordance with 40 CFR 261.35? [ ] N/A [X] Yes [ ] No
15. Does the waste contain radioactive or U.S. D.O.T. hazardous material materials? [ ] Yes [X] No

D. SUPPLEMENTAL INFORMATION

[ ] None [ ] MSDS [X] Analytical Data [ ] Memo/Letter [ ] Process Knowledge No. of Pages_____

E. SHIPPING INFORMATION

1. Packaging: [X] Bulk Solids [ ] Bulk Liquids [ ] Drum [ ] Roll-off [ ] Dump Truck [ ] Tank Truck
2. Estimated Volume: 50 [X] Tons [ ] Cubic yards [ ] Gallons [ ] Other _____
3. Shipping Frequency: 1 Time Designated Landfill: Broadhurst

F. GENERATOR / CUSTOMER CERTIFICATION

I hereby certify that all information submitted and all attached documents contain true and accurate descriptions of this waste. No deliberate or willful omissions of composition or properties exist, and all known or suspected hazards have been disclosed. I further certify that the waste is not designated a Hazardous Waste defined by the USEPA in 40 CFR 261, nor does it contain PCB's regulated under TSCA 40 CFR 761.

I, DAVID J. KRUZICKI, am employed by U.S. NAVY, and am authorized to sign this request for:
(Name, Please Print) (Company Name)

U.S. NAVY, [signature], 7/24/01
(Company Name) (Signature) (Date)

Form SWO1 (99)

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 . . .

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.

149152-A page 1 of 1

CHAIN-OF-CUSTODY

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/BILL 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/BILL 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/BILL 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

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 volatile	1311/8270C TCLP semivolatile	1311/8081A/8151A TCLP Pesticides/Herbicides	Flashpoint	TPH	8082 PCB	1311/8081A/7470 TCLP Metals	Reactivity	Corrosivity	Ignitability	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB I
1	002-KIG1-S-0727-00	Waste Characterization	S	7-27-00		C	14	X	X	X	X	X	X	X	X	X		Comp		1052
2	002-KIG1-S-0727-00	Waste characterization	S	7-27-00	12:40	C	14	X	X	X	X	X	X	X	X	X		Comp		1052
3																			Sample containers sealed in Zip lock type bags and placed on ice for Transport (RH)	
4																				
5																				
6																			Samples Hand Delivered to Testing Inc for Expedite (RH)	
7																				
8																				
9																				
10																				

Account #

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT

COURIER AND SHIPPING NUMBER: Q Note # 0614001081 99.

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

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

Form CCI001, Rev 03/00