

N60200.AR.002505  
NAS CECIL FIELD, FL  
5090.3a

SOURCE REMOVAL REPORT FOR EXCAVATION OF POLYCHLORINATED BIPHENYL-  
CONTAMINATED SOIL AT BUILDING 815 TRANSFORMER AREA NAS CECIL FIELD FL  
7/1/2000  
CH2MHILL CONSTRUCTORS INC

**Source Removal Report  
Excavation of PCB-Contaminated Soil at the  
Building 815 Transformer Area**

**NAS Cecil Field  
Jacksonville, Florida**

Revision No. 00

**Contract No. N62467-98-D-0995, CTO No. 0005**

**Submitted to  
Department of the Navy, Southern Division  
Naval Facilities Engineering Command**

**Prepared by**



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

July 2000

**Prepared/Approved By:**

*Sam Ross*  
Sam Ross, Project Manager

7/12/00  
Date

**Approved By:**

*R. Scott Newman (mc)*  
R. Scott Newman, Program Manager

7/13/00  
Date

**Client Acceptance:**

*Paul A. Clement*  
U.S. Navy Responsible Authority

8-7-00  
Date

**SOURCE REMOVAL REPORT  
EXCAVATION OF PCB-CONTAMINATED SOIL AT THE  
BUILDING 815 TRANSFORMER AREA**

**NAVAL AIR STATION CECIL FIELD  
JACKSONVILLE, FLORIDA**

**Revision No. 00**

**Unit Identification Code: N65928**

**Contract Task Order (CTO) No. 0005  
Contract No. N62467-98-D-0995**

**July 2000**

**Prepared by**



**CH2MHILL**  
*Constructors, Inc.*

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

**Submitted to**

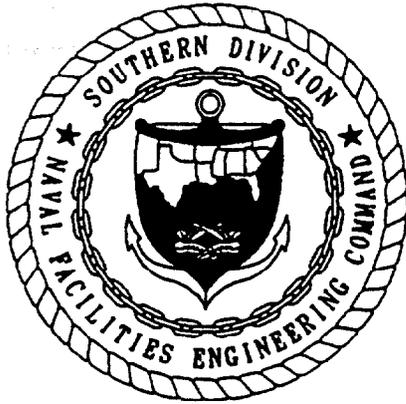
**Department of the Navy, Southern Division  
Naval Facilities Engineering Command  
2155 Eagle Drive  
North Charleston, South Carolina 29406**

**Release of this document requires the prior notification  
of the chief official of the activity studied.**

03123

**DISTRIBUTION LIST**

	<u>Copies</u>
Southern Division, Naval Facilities Engineering Command	1
NAS Cecil Field	2
Florida Department of Environmental Protection	1
CH2M HILL Constructors, Inc.	2
CH2M HILL, Inc.	1
Tetra Tech NUS, Inc.	4



**CERTIFICATION OF TECHNICAL  
DATA CONFORMITY (JULY 2000)**

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, CTO No. 0005 is complete and accurate and complies with all requirements of this contract.

DATE: 7-12-00

NAME AND TITLE OF CERTIFYING OFFICIAL:



Sam Ross, P.E.  
Project Manager

**TABLE OF CONTENTS**

<b>Chapter</b>	<b>Title</b>	<b>Page No.</b>	<b>Revision No.</b>	<b>Date</b>
1.0	Introduction .....	1-1	00	07/11/00
1.1	Site Background.....	1-1	00	07/11/00
1.2	Project Objectives .....	1-1	00	07/11/00
2.0	Source Removal Activities .....	2-1	00	07/11/00
2.1	Site Preparation .....	2-1	00	07/11/00
2.2	Soil Excavation and Disposal .....	2-1	00	07/11/00
	2.2.1 Soil Excavation.....	2-1	00	07/11/00
	2.2.2 Soil Transportation and Disposal .....	2-1	00	07/11/00
	2.2.3 Backfilling and Site Restoration .....	2-2	00	07/11/00
2.3	Confirmatory Sampling and Analysis .....	2-2	00	07/11/00
3.0	Conclusions.....	3-1	00	07/11/00
	REFERENCES	Ref-1	00	07/11/00

**APPENDICES**

- Appendix A: Photographs
- Appendix B: Copy of the Soil Manifest
- Appendix C: Certificate of Disposal
- Appendix D: Clean Fill Material Analytical Report

**LIST OF FIGURES**

<b>Figure</b>	<b>Title</b>	<b>Page No.</b>	<b>Revision No.</b>	<b>Date</b>
1-1	Proposed Soil Excavation Limits .....	1-3	00	07/11/00
2-1	Actual Soil Excavation Limits .....	2-3	00	07/11/00

**LIST OF TABLES**

<b>Table</b>	<b>Title</b>	<b>Page No.</b>	<b>Revision No.</b>	<b>Date</b>
2-1	Summary of the Manifest for Soil Disposal .....	2-1	00	07/11/00

GLOSSARY

bls	below land surface
CCI	CH2M HILL Constructors, Inc.
CTO	Contract Task Order
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
PCB	polychlorinated biphenyl
SLTL	soil cleanup target level
TtNUS	Tetra Tech NUS, Inc.

## 1.0 INTRODUCTION

CH2M HILL Constructors, Inc. (CCI) was contracted by the Southern Division, Naval Facilities Engineering Command (NAVFAC) to perform excavation, transportation, and disposal of polychlorinated biphenyl (PCB)-contaminated soil and prepare a source removal Report for the Building 815 Transformer Area at Naval Air Station (NAS) Cecil Field in Jacksonville, Florida. The Source Removal was conducted in accordance with the specifications outlined in the Sampling and Analysis Report for Building 815, dated January 1999, prepared by Harding Lawson Associates, and the Dig and Haul Package for the Building 815 Transformer Area, dated August 20, 1999, prepared by Tetra Tech NUS, Inc. (TtNUS).

The scope of services for excavation of PCB-contaminated soil at the Building 815 Transformer Area is described in detail in the NAS Cecil Field Basewide Work Plan, Revision 01 (CCI, 1998) and the Work Plan Addendum No. 02, Excavation of Lead-, Arsenic-, PCB-, and/or Petroleum-Contaminated Soil from Various Grey Sites; NAS Cecil Field, Jacksonville, Florida (CCI, 1999). This work was authorized under Remedial Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0005.

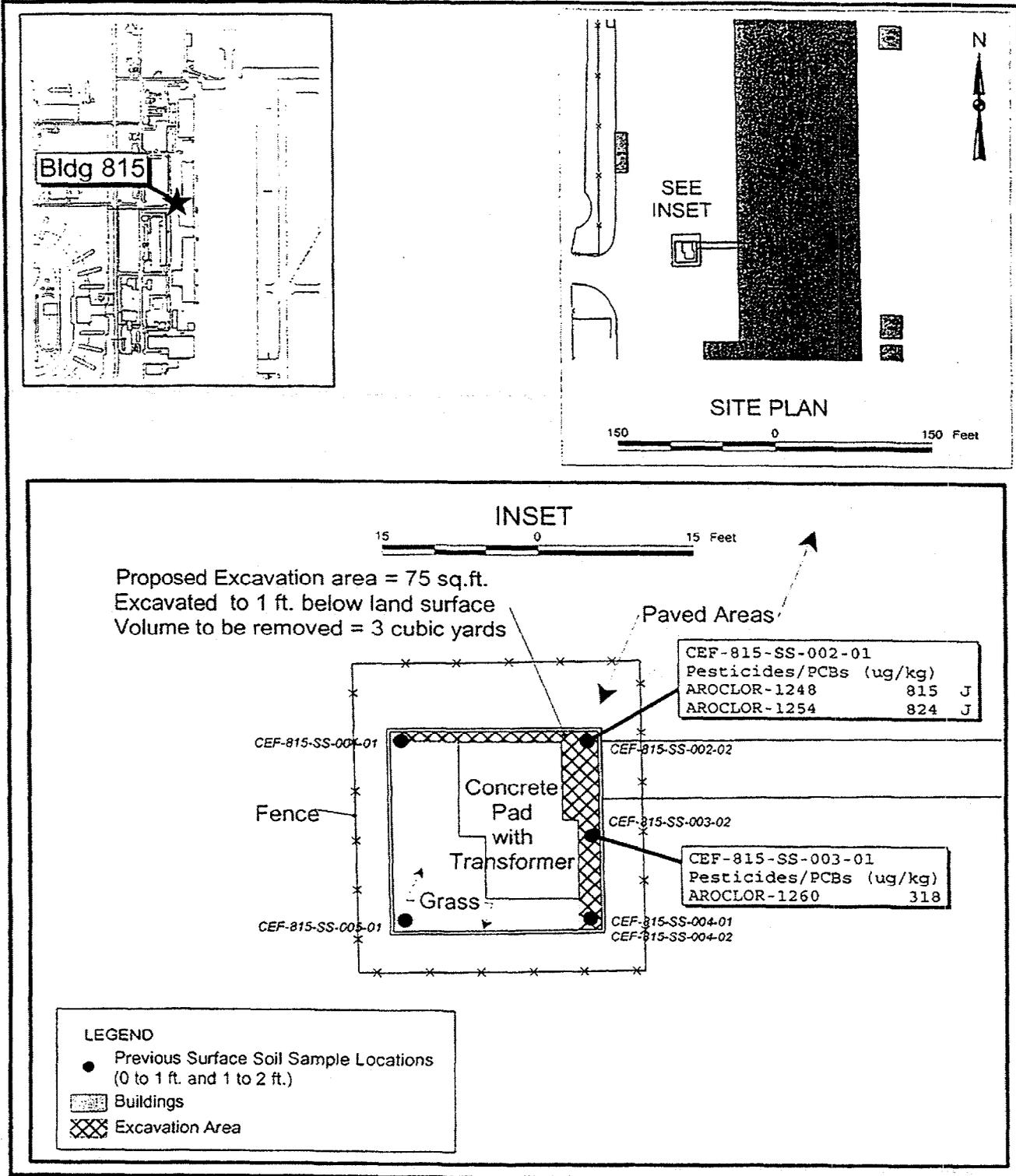
**1.1 SITE BACKGROUND.** Building 815 is described as an aircraft maintenance hangar in the Base Realignment and Closure NAS Cecil Field Environmental Baseline Survey prepared by ABB Environmental Services, Inc. in 1994. Building 815 is located at the intersection of Lake Newman Road (formerly 6<sup>th</sup> Avenue) and Flightline Road (formerly Jet Road) along the north-south flightline, south of Hanger 1845, and north of Hanger 825. Building 815 houses administrative offices and a large aircraft maintenance area.

The proposed excavation area is adjacent to the north and east of a transformer located west of Building 815. This transformer appears to service Building 815 and is placed on a concrete pad with visual oil staining.

Soil samples were collected at locations surrounding the transformer, and sample analysis indicated PCBs at concentrations in excess of the soil cleanup target level (SCTL) of 0.5 milligram per kilogram in two of the collected soil samples.

A site plan showing the proposed delineated soil excavation limits prior to this source removal is provided in Figure 1-1.

**1.2 PROJECT OBJECTIVES.** The primary objective of the soil excavation was to remove PCB-contaminated soil to the horizontal excavation limits shown on Figure 1-1 and the vertical excavation limit of 1 foot below land surface (bls), as specified in the Dig and Haul Package for the Building 815 Transformer Area (TtNUS, 1999). Soils were to be excavated until the vertical and horizontal excavation limits were reached, and then the excavated area backfilled with clean fill material imported from offsite.



**Figure 1-1**  
 Proposed Soil Excavation Area  
 Building 815 Area  
 Naval Air Station Cecil Field  
 Jacksonville, Florida

## 2.0 SOURCE REMOVAL ACTIVITIES

A source removal was conducted at the Building 815 Transformer Area on February 18 through 23, 2000, with a total of 6.90 tons of PCB-contaminated soil excavated. The excavated soil was transported and disposed of offsite on March 7, 2000. Photographs showing the site before, during, and after the source removal are presented in Appendix A.

**2.1 SITE PREPARATION.** In preparation for excavation, utility locations were conducted by Sunshine State One-call of Florida. The excavation area was marked for utilities and these areas were hand-excavated and the utilities uncovered.

### 2.2 SOIL EXCAVATION AND DISPOSAL

**2.2.1 Soil Excavation.** Soils were excavated to the horizontal excavation limits shown on Figure 2-1 and the vertical excavation limit of 1 foot bls as specified in the Dig and Haul Package for the Building 815 Transformer Area (TtNUS, 1999). Based on visual soil staining and technical direction from Southern Division, NAVFAC and TtNUS, one 3-foot by 4-foot area, shown on Figure 2-1, within the specified excavation area was further excavated to a depth of 4 feet bls.

The soil was hand-excavated and was stockpiled, bermed, and covered prior to being loaded into a truck for transportation and disposal. Based on the manifest, 6.90 tons of PCB-contaminated soil from the Building 815 Transformer Area was excavated and disposed of offsite. The actual horizontal excavation limits matched the proposed horizontal excavation limits specified in the Dig and Haul Package for the Building 815 Transformer Area (TtNUS, 1999), and are shown on Figure 2-1.

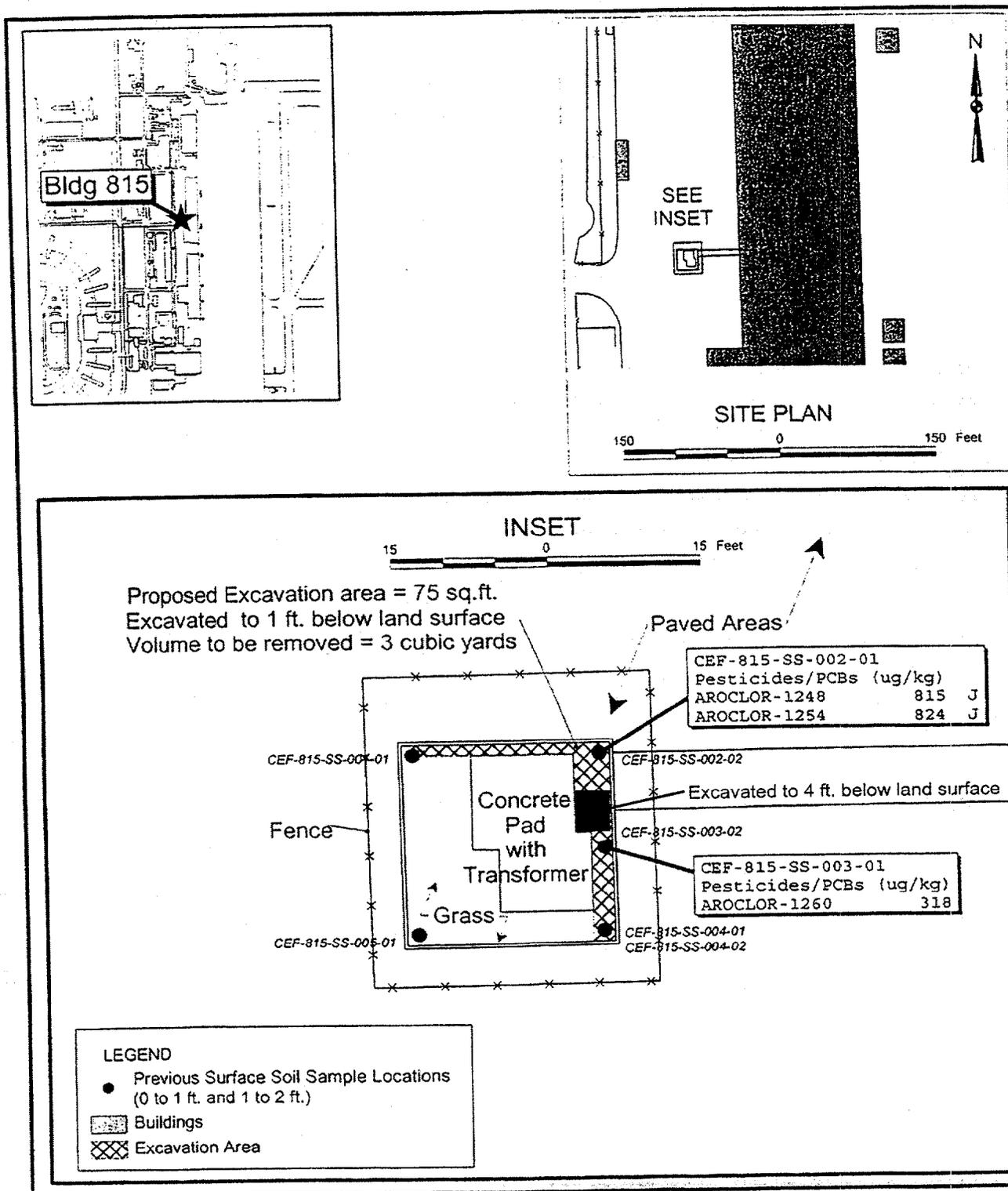
**2.2.2 Soil Transportation and Disposal.** The PCB-contaminated soil was transported off site by Pritchett Trucking to the Chesser Island Road Landfill in Folkston, Georgia. A summary of the manifest is presented in Table 2-1; copies of the manifest and certificate of disposal are provided in Appendices B and C, respectively.

**TABLE 2-1  
Summary of the Manifest for Soil Disposal**

Date	Truck No.	Company	Manifest No.	Weight (pounds)	Tare (pounds)	Net (pounds)	Net (tons)
3/7/00	62	Pritchett Trucking	93559	39,540	25,740	13,800	6.90

**2.2.3 Backfilling and Site Restoration.** The material used to backfill the excavation was clean fill brought in from the Dallas Harts Borrow Pit in Jacksonville, Florida. The analytical report certifying that the material was clean fill is provided in Appendix D.

Once the excavation area was backfilled, the site was graded and seeded with a mixture of rye and bahia grass.



**Figure 2-1**  
Proposed Soil Excavation Area  
Building 815 Area  
Naval Air Station Cecil Field  
Jacksonville, Florida

**2.3 CONFIRMATORY SAMPLING AND ANALYSIS.** No confirmatory sampling and analyses were performed based on the specifications outlined in the Dig and Haul Package for the Building 815 Transformer Area (TtNUS, 1999) and the Baseline PSC Dig and Haul Schedule and Status (TtNUS, 1999).

### 3.0 CONCLUSIONS

A total 6.90 tons of PCB-contaminated soil from the Building 815 Transformer Area were removed and disposed of offsite during this source removal. The soil was excavated to the horizontal and vertical excavation limits shown on Figure 2-1. The actual vertical and horizontal excavation limits matched or exceeded the proposed vertical and horizontal excavation limits specified in the Dig and Haul Package for the Building 815 Transformer Area (TtNUS, 1999). No confirmatory sampling and analysis were performed based on the specifications outlined in the Dig and Haul Package for the Building 815 Transformer Area (TtNUS, 1999) and the Baseline PSC Dig and Haul Schedule and Status (TtNUS, 1999).

REFERENCES

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

CH2M HILL Constructors, Inc.; *CTO No. 0005 Work Plan Addendum No. 2, Excavation of Lead-, Arsenic-, PCB-, and/or Petroleum-Contaminated Soil from Various Grey Sites*; NAS Cecil Field, Jacksonville, Florida; June 1999.

Harding Lawson Associates; *Sampling and Analysis Report, Building 815, Base Realignment and Closure, Zone D, Industrial and Flight Line Area*; NAS Cecil Field, Jacksonville, Florida; Revision 1.0; January 1999.

Tetra Tech NUS, Inc.; *Baseline PSC Dig and Haul Schedule and Status*; NAS Cecil Field, Jacksonville, Florida; December 1999.

Tetra Tech NUS, Inc.; *Dig and Haul Package for the Building 815 Transformer Area*; NAS Cecil Field, Jacksonville, Florida; August 1999.

**Appendix A**

**Photographs**



1. View of the Building 815 Transformer Area site prior to excavation.



2. View of the Building 815 Transformer Area excavation in progress.



3. View of the localized Building 815 Transformer Area excavation to four feet bls.



4. View of the backfilled Building 815 Transformer Area excavation.

**Appendix B**

**Copy of the Soil Manifest**



# NON-HAZARDOUS MANIFEST

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

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No. 01517002947A		Manifest Document No.		2. Page 1 of 1	
Generator's Name and Mailing Address CSC/GENRAY SOUV NOVAPAC ENG CON 13200 NORMANDY BLVD. JACKSONVILLE, FL 32215				A. Manifest Number <b>WMNA 93559</b>			
4. Generator's Phone 904 777-4912				B. State Generator's ID			
5. Transporter 1 Company Name DUNFORD TRUCKING		6. US EPA ID Number 01527940044A		C. State Transporter's ID FL10994175540		D. Transporter's Phone (904) 486-2630	
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID	
9. Designated Facility Name and Site Address CHESSER ISLAND ROAD LANDFILL, INC. 12.1 MILES SW OF FOLKSTON P. O. BOX 129 FOLKSTON, GA 37537				10. US EPA ID Number 0124-01006D		F. Transporter's Phone	
				G. State Facility's ID		H. Facility's Phone 912-496-7912	
11. Description of Waste Materials				12. Containers No. Type		13. Total Quantity	14. Unit WL/Vol
a. NON-HAZARDOUS UNREGULATED SOIL FROM SITE #818 WM Profile # 818				0101EN010101		1 Ton	Misc. Comments
b. site #815 WM Profile #				0011EN00087.911		Ton	TOTAL LOAD
c. site #815 WM Profile #				11		16.90	815 ONLY
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: _____				TIC # 17013 39540 23740 15800/8			
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 DAVID T. HURVICK				Signature "On behalf of" <i>David T. Hurvick</i>		Month Day Year 02 21 80	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Michael E. ...				Signature <i>Michael E. ...</i>		Month Day Year 10 30 70	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Month Day Year	
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 <i>John ...</i>							
Signature <i>John ...</i>				Month Day Year 03 07 01			

GENERATOR

TRANSPORTER

FACILITY

**Appendix C**

**Certificate of Disposal**

CERTIFICATE OF DISPOSAL

This is to document the disposition of waste material(s) removed from your facility located at:  
U.S. Navy, NAS Cecil Field, 13200 Normandy Blvd., Jacksonville, Florida (Bldg. 815)

- A. The waste material(s) consisted of  
a) PCB Contaminated Soil
- B. The waste material(s) were transported by:  
1<sup>st</sup> Company: Pritchett Trucking. EPA ID #: N/A
- C. The waste material(s) were disposed of at:  
Facility: Chesser Island Road Landfill  
Address: P.O. Box 128, Highway 121 @ Chesser Island Road  
Folkston, GA 31537-0128
- D. Disposal of your waste material(s) was accomplished by the following method(s):  
a) Subtitle-D Landfill, immediately compacted and covered in accordance with all permit regulations
- E. Date of Disposal: 03/07/00
- F. Tons Disposed: 7.91 6.90 ✓

Chesser Island Road Landfill  
P.O. Box 128, Hwy 121 @Chesser Island Rd  
Folkston, Ga 31537  
912/496-7918

**Appendix D**  
**Clean Fill Material Analytical Report**

## Report of Analysis

Page 1 c

Client Sample ID: 005-BFI-S-1220-99  
 Lab Sample ID: F5529-1  
 Matrix: SO - Soil  
 Method: SW846 8260B  
 Project: Cecil Field-Grey Sites

Date Sampled: 12/20/99  
 Date Received: 12/21/99  
 Percent Solids: 88.6

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H005415.D	1	12/22/99	CJP	n/a	n/a	VH20
Run #2							

## VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	82	ug/kg	J
71-43-2	Benzene	ND	3.3	ug/kg	
75-27-4	Bromodichloromethane	ND	3.3	ug/kg	
75-25-2	Bromoform	ND	3.3	ug/kg	
108-90-7	Chlorobenzene	ND	3.3	ug/kg	
75-00-3	Chloroethane	ND	8.2	ug/kg	
67-66-3	Chloroform	ND	3.3	ug/kg	
75-15-0	Carbon disulfide	ND	16	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	3.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	3.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	3.3	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.3	ug/kg	
124-48-1	Dibromochloromethane	ND	3.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	3.3	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	3.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.3	ug/kg	
100-41-4	Ethylbenzene	ND	3.3	ug/kg	
591-78-6	2-Hexanone	ND	16	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	16	ug/kg	
74-83-9	Methyl bromide	ND	8.2	ug/kg	
74-87-3	Methyl chloride	ND	8.2	ug/kg	
75-09-2	Methylene chloride	ND	16	ug/kg	
78-93-3	Methyl ethyl ketone	ND	16	ug/kg	
100-42-5	Styrene	ND	3.3	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.3	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	3.3	ug/kg	
108-88-3	Toluene	ND	3.3	ug/kg	
79-01-6	Trichloroethylene	ND	3.3	ug/kg	
75-01-4	Vinyl chloride	ND	8.2	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

### Report of Analysis

Client Sample ID:	005-BFI-S-1220-99	Date Sampled:	12/20/99
Lab Sample ID:	F5529-1	Date Received:	12/21/99
Matrix:	SO - Soil	Percent Solids:	88.6
Method:	SW846 3550B/8270C		
Project:	Cecil Field-Grey Sites		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L002877.D	1	12/30/99	ME	12/30/99	OP1192	SL189
Run #2							

ABN TCL List

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic acid	ND	940	ug/kg	
95-57-8	2-Chlorophenol	ND	380	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	380	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	380	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	940	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	940	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	750	ug/kg	
95-48-7	2-Methylphenol	ND	380	ug/kg	
	3&4-Methylphenol	ND	380	ug/kg	
88-75-5	2-Nitrophenol	ND	380	ug/kg	
100-02-7	4-Nitrophenol	ND	940	ug/kg	
87-86-5	Pentachlorophenol	ND	940	ug/kg	
108-95-2	Phenol	ND	380	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	380	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	380	ug/kg	
83-32-9	Acenaphthene	ND	380	ug/kg	
208-96-8	Acenaphthylene	ND	380	ug/kg	
120-12-7	Anthracene	ND	380	ug/kg	
56-55-3	Benzo(a)anthracene	ND	380	ug/kg	
50-32-8	Benzo(a)pyrene	ND	380	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	380	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	380	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	380	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	380	ug/kg	
85-68-7	Benzyl benzyl phthalate	ND	380	ug/kg	
100-51-6	Benzyl Alcohol	ND	380	ug/kg	
91-58-7	2-Chloronaphthalene	ND	380	ug/kg	
106-47-8	4-Chloroaniline	ND	380	ug/kg	
86-74-8	Carbazole	ND	380	ug/kg	
218-01-9	Chrysene	ND	380	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	380	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	380	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	380	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	380	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	380	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	380	ug/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 005-BFI-S-1220-99	Date Sampled: 12/20/99
Lab Sample ID: F5529-1	Date Received: 12/21/99
Matrix: SO - Soil	Percent Solids: 88.6
Method: SW846 3550B/8081A	
Project: Cecil Field-Grey Sites	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST02118.D	1	12/29/99	SKW	12/27/99	OP1184	GST85
Run #2							

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	1.9	ug/kg	
319-84-6	alpha-BHC	ND	1.9	ug/kg	
319-85-7	beta-BHC	ND	1.9	ug/kg	
319-86-8	deltz-BHC	ND	1.9	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	1.9	ug/kg	
5103-71-9	alpha-Chlordane	ND	3.8	ug/kg	
5103-74-2	gamma-Chlordane	ND	3.8	ug/kg	
60-57-1	Dieldrin	ND	1.9	ug/kg	
72-54-8	4,4'-DDD	ND	3.8	ug/kg	
72-55-9	4,4'-DDE	ND	3.8	ug/kg	
50-29-3	4,4'-DDT	ND	3.8	ug/kg	
72-20-8	Endrin	ND	3.8	ug/kg	
1031-07-8	Endosulfan sulfate	ND	3.8	ug/kg	
7421-93-4	Endrin aldehyde	ND	3.8	ug/kg	
53494-70-5	Endrin ketone	ND	3.8	ug/kg	
959-98-8	Endosulfan-I	ND	1.9	ug/kg	
33213-65-9	Endosulfan-II	ND	3.8	ug/kg	
76-44-8	Heptachlor	ND	1.9	ug/kg	
1024-57-3	Heptachlor epoxide	ND	1.9	ug/kg	
72-43-5	Methoxychlor	ND	7.5	ug/kg	
8001-35-2	Toxaphene	ND	190	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%		50-144%
2051-24-3	Decachlorobiphenyl	91%		10-180%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 1 of 1

Client Sample ID: 005-BFI-S-1220-99  
 Lab Sample ID: F5529-1  
 Matrix: SO - Soil  
 Project: Cecil Field-Grey Sites

Date Sampled: 12/20/99  
 Date Received: 12/21/99  
 Percent Solids: 88.6

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method
Arsenic	<1.1	1.1	mg/kg	1	12/24/99	JK	SW846 6010A
Barium	<21	21	mg/kg	1	12/24/99	JK	SW846 6010A
Cadmium	<0.42	0.42	mg/kg	1	12/24/99	JK	SW846 6010A
Chromium	<1.1	1.1	mg/kg	1	12/24/99	JK	SW846 6010A
Lead	<11	11	mg/kg	1	12/24/99	JK	SW846 6010A
Mercury	<0.18	0.18	mg/kg	1	12/27/99	JK	SW846 7471A
Selenium	<11	11	mg/kg	1	12/24/99	JK	SW846 6010A
Silver	<1.1	1.1	mg/kg	1	12/24/99	JK	SW846 6010A

---

 RL = Reporting Limit

CLIENT INFORMATION

NAME OMEGASYS ENVIRONMENTAL  
 ADDRESS 4661 MILLERMILL RD - SUITE B  
 CITY TUCKER STATE GEORGIA ZIP 30519  
 SEND REPORT TO: PHONE # 770-621-9414 (ROB WRIGHT)

FACILITY INFORMATION

PROJECT NAME CCI/J.A. JONES - GREY SITES  
 LOCATION CECIL FIELD - JACKSONVILLE, FL  
 PROJECT NO. 99130  
 FAX # 770-934-2451

ANALYTICAL INFORMATION

8260/550 - ENCORE  
 TOTAL K.C.R.A  
 PESTICIDES - 8081A  
 HERBICIDES - 8151  
 PCBs - 8082  
 SEMI VOLs - 8270

MATRIX CODES

- DW - DRINKING WATER
- GW - GROUND WATER
- WW - WASTE WATER
- SO - SOIL
- SL - SLUDGE
- OI - OIL
- LIQ - OTHER LIQUID
- SOL - OTHER SOLID

ACCUTEST SAMPLE #

FIELD ID / POINT OF COLLECTION

COLLECTION

PRESERVATION

005-BF1-5-1220-99  
 Dallas Hart (Chatter rd)

DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl	NaOH	HNO3	H2SO4	None
12/20/99	900	GGH	SO	5					X

LAB USE ONLY

DATA TURNAROUND INFORMATION

- STANDARD
- 48 HOUR RUSH
- 24 HOUR EMERGENCY
- OTHER 72 HR

EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

APPROVED BY:

DATA DELIVERABLE INFORMATION

- STANDARD
- COMMERCIAL "B"
- DISK DELIVERABLE
- STATE FORMS
- OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

RELINQUISHED BY: <u>1. [Signature]</u>	DATE TIME: <u>12/20/99-930</u>	RECEIVED BY: <u>[Signature]</u>	RELINQUISHED BY: 2.	DATE TIME:	RECEIVED BY: 2.
RELINQUISHED BY: <u>3. [Signature]</u>	DATE TIME: <u>12/20/99-1100</u>	RECEIVED BY: <u>3. Fed Ex</u>	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE <input type="checkbox"/>	ON ICE <input type="checkbox"/>

TEMPERATURE