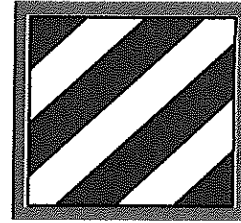


FORSKOM

UST #117
CLOSURE REPORT



3d Inf Div(m)

UNDERGROUND STORAGE TANK
(JP-4 TANK)

Building 7002
Bulk Fuel Facility
Hunter Army Airfield, Georgia

FACILITY ID# : 9-025113

Prepared by:

Directorate of Public Works
Environmental and Natural Resources Division
Environmental Branch
Air, Water, and Restoration Section
October 1999

Hunter Army Airfield UST Closure Report
UST #117, Building 7002, Facility Identification Number 9025113

CLOSURE REPORT

**JP-4 Tank
Building 7002, Tank #117
Facility ID #: 9-025113**

Hunter Army Airfield, Georgia

Prepared by

Fort Stewart Directorate of Public Works, Environmental Branch

October 1999

**Hunter Army Airfield, Georgia
Underground Storage Tank Closure Report**

Table of Contents

<u>Item</u>	<u>Tab</u>
Georgia Closure Form	1
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EPA Form 7530-1 & Field Assessment Methods	6
Laboratory Data Summary	7
Manifests	9
Hunter Army Airfield Area Map	10

Prepared by

Fort Stewart Directorate of Public Works, Environmental Branch

TAB 1

CLOSURE REPORT FORM

Georgia Department of Natural Resources

Environmental Protection Division
Underground Storage Tank Management Program
4244 International Parkey, Suite 104, Atlanta, Georgia 30354
Lonice C. Barrett, Commissioner
Harold F. Reheis, Director
(404) 362-2687



CLOSURE REPORT FORM

Please complete the following form, include the listed items and check all of the boxes that apply. This form can be used as a Closure Report, provided documentation is attached when specified, to substantiate the information on this form, as outlined in the guidance document "So You Want to Close an UST?" (GUST-9). If one of the items does not apply to your tank closure, please provide a written explanation for the omission. If soil was excavated and disposed of, be sure to complete the applicable sections and attach the proper disposal documents.

1. Owner of UST System:

Name: US Army/Fort Stewart
Phone Number: (912) 767-2010/1234
Company: US Army
Address: Cdr. 3rd Inf. Div. (Mech.), Attn: AFZP-DEV, Bldg. 1139
Ft. Stewart GA 31314-5000
(city) (state) (zip code)

I hereby certify that the information contained in this Closure Report and in all the attachments is true, accurate, and complete, and the Closure Report satisfies all criteria and requirements of Rule 391-3-15-.09 of the Georgia Rules for Underground Storage Tank Management.

Signature: Thomas C. Fry Date: 11/03/99

2. UST System Site Location:

Facility Name: Hunter Army Airfield/FAC 7002
Street Address: FAC 7002
Savannah GA 31402-5026
(city) (state) (zip code)
Facility ID# 9-025113

3. Contract Certification:

I hereby certify that I have performed or supervised the work detailed in this report, and have examined and am familiar with the information submitted in this and all attached documents. The submitted information is, to the best of knowledge, true, accurate, complete, and in accordance with the Georgia Rules for Underground Storage Tank Management, revised February, 1995.

Name: David F. Black
Address: PO Box 1386 Lake City, Florida 32056

Signature: David F. Black Date: 1/23/97

Closure for

MANAGER OF OPERATIONS (3)

August 1995

4. Site-specific Hydrogeology:

Depth to Groundwater _____ ft. if encountered

☒ Not Applicable

5. Site Map: Include the following items on an attached site map:

REFER TO TAB 5

- Tank Pit Area
- Sewer Lines (if present)
- Sample Locations (with sample numbers and depths)
- Scale: 1" = 10'
- Piping Trenches
- Water Lines
- North Arrow
- Dispensers
- Tanks with thier ID#s, corresponding to the Notification Form 7530-1

6. Tank Removal

- Date of Removal: (Closed in place) 30-Sep-96
- Tank Information: Tank # Tank Size (gallons)

Tank Contents
JP-4

(This information should correspond to the 7530-1 Form.)

- Attach Amended Notification Form 7530-1
- Describe Soil Sampling Procedures (and groundwater, if encountered):

REFER TO TAB 6

REFER TO TAB 6

7. Laboratory Analytical Data:

The following items must be included on attached copies

REFER TO TAB 7

- Laboratory Method
- Detection Limits
- Date of Sampling
- Signed Chain of Custody
- Date of Analysis
- Quality Control Data

8. Regulated Substance Released:

Check the applicable box(es).

☐ Gasoline ☐ Diesel ☐ Kerosene ☐ Used Oil ☒ Other JP-4

9. Excavation and Treatment/Disposal of Contaminated Soil:

- Attach Soil Disposal Manifests
- Volume of Soil Excavated (less than 6 ft from USTs and 4 ft from piping or dispenser islands)

_____ Tons OR _____ yd³

☒ Not Applicable

10. Local Water Resources: Attach documentation only if Table B Soil Threshold Values and/or in-Stream Water Quality Standards are proposed for soil disposal, or No Further Action Required status. Check the applicable box(es).

☐ Drinking water supplies are NOT located in:
High or average groundwater pollution susceptibility area:*
Public water systems within 2.0 miles and
Non-public water systems within 0.5 mile

OR

Low groundwater pollution susceptibility area:*
Public water systems within 1.0 mile and
Non-public water systems within 0.25 mile

* As defined by the Groundwater Pollution Susceptibility Map of Georgia

☒ Streams, Lakes, and Ponds: LAMAR CANAL
Distance to closest surface water body: _____ mile(s) or 650 feet

☐ Not Applicable

SEE TAB 7, 10

11. Conclusions or Recommendations: Choose one.

☐ Clean Closure, thus No Further Action is Required.

☐ Soil Excavated within the Limits Specified in Question 7 (GUST-9) and Transported to an EPD Treatment/Disposal Facility, Thus No Further Action is Required.

☒ CAP-Part A recommended.

TAB 4

**PHOTODOCUMENTATION AND
CERTIFICATE OF DESTRUCTION**

Hunter Army Airfield UST Closure Report
UST #117, Building 7002, Facility Identification Number 9025113

PHOTODOCUMENTATION OF IN-PLACE CLOSURE ACTIVITIES



Photo 1. ACE tank removal specialists preparing tank for closure in place.

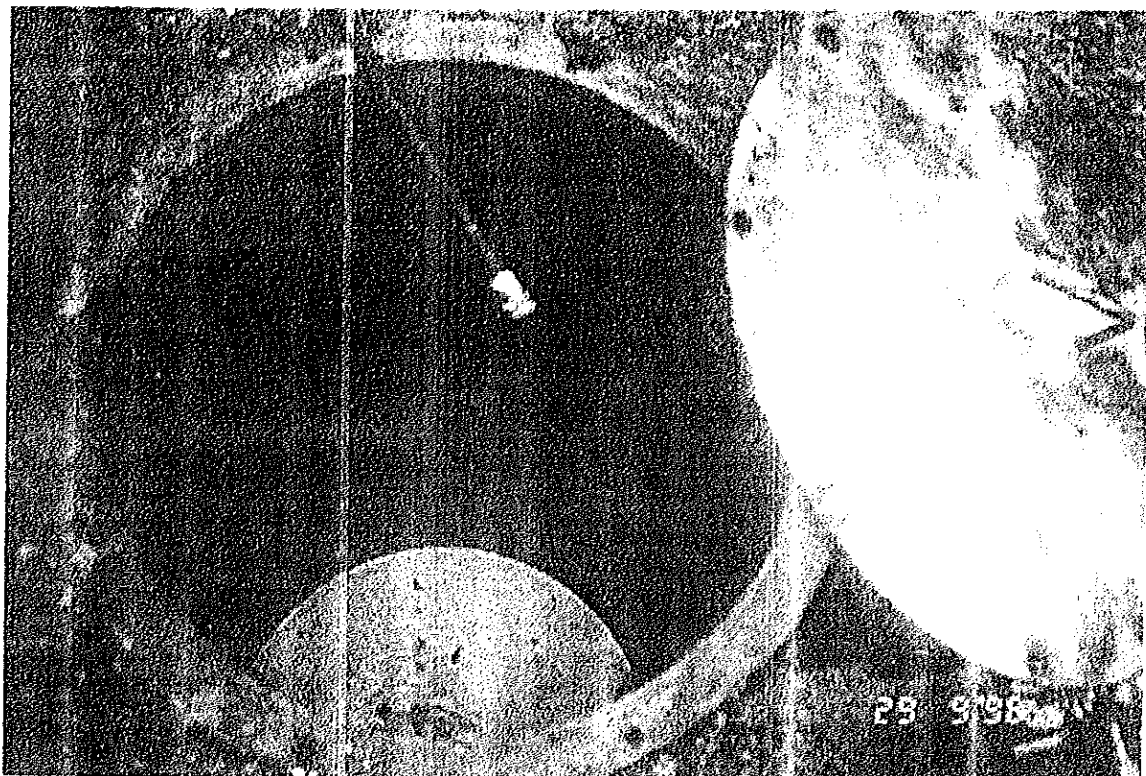


Photo 2. The tank before filling with slurry in place.

**A CERTIFICATE OF IN-PLACE CLOSURE WAS NOT PROVIDED BY THE
INSTALLATION'S CONTRACTOR**

TAB 5
SITE MAPS

CLOSURE REPORT
UST #117, FACILITY ID. NO. 9-025113

SITE MAPS
TAB 5

FIGURE #1: Provided to Fort Stewart/Hunter Army Airfield by Anderson Columbia Environmental after in-place closure of UST #117 (September 1996). The site map indicates the location of the soil sample (S1) obtained at the time of UST closure.

FIGURE #2: Bulk Fuel Facility (HAA-09), Hunter Army Airfield, Georgia

FIGURE #3: Soil Gas Survey Sampling Locations at the Bulk Fuel Facility

FIGURE #4: Soil Gas Concentration Contour Map for Benzene at the Bulk Fuel Facility (BFF) (UST #117 is located in the BFF). This figure represents the benzene detections from the GoreSorber Soil Gas Survey conducted at the BFF in January and February 1999.

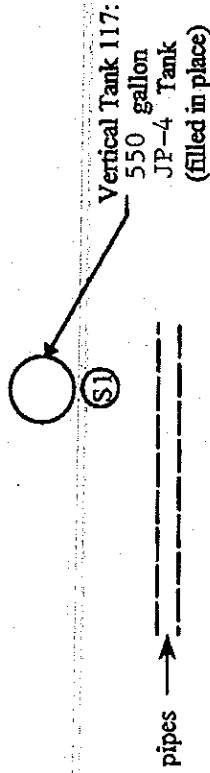
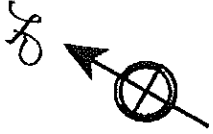
FIGURE #5: Combined Soil Gas Contaminant Concentration Plumes for Combined PAHs, Benzene, TPH-DRO, and TPH-GRO at the Bulk Fuel Facility.

FIGURE #6: Significant Contaminant Concentration Area at the Bulk Fuel Facility

FIGURE #7: Proposed CAP-Part A Sampling Locations

FIGURE #8: Proposed Surface Water and Sediment Sampling Locations

Building 7002



Sample S1 collected @ 5'

LEGEND

(S) Location of Closure Sample

ANDERSON COLUMBIA

Environmental, Inc.

P.O. BOX 1386, LAKE CITY, FLORIDA 32056-1386 PHONE: (904) 755-1196 FAX: (904) 758-9050

DR. AJR DR. APP.

DATE: 16 December 96 SCALE: 1" = 10'

Sampling Map - Building 7002

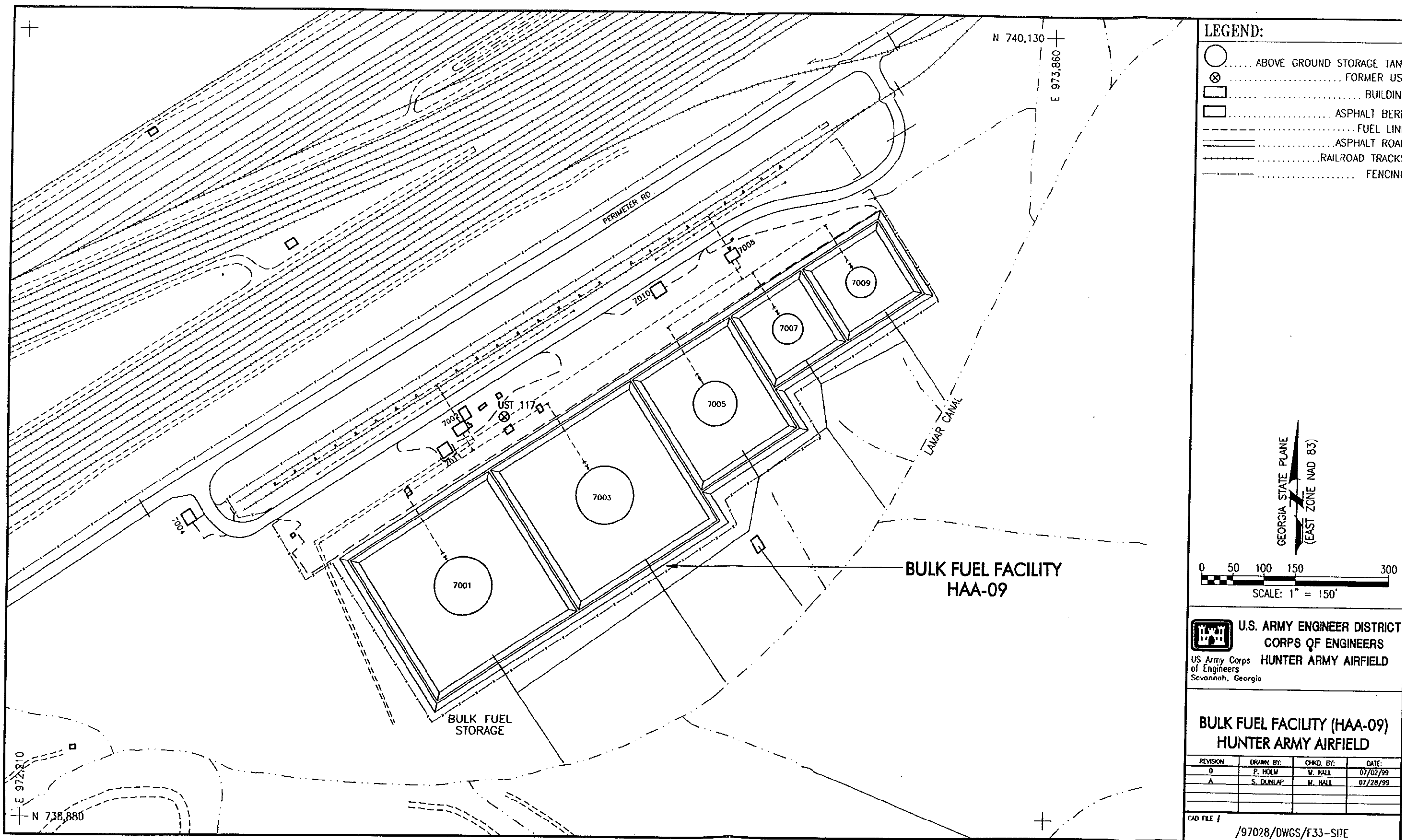
Tank 117

Hunter AAF, Savannah, Georgia

Delivery Order 102

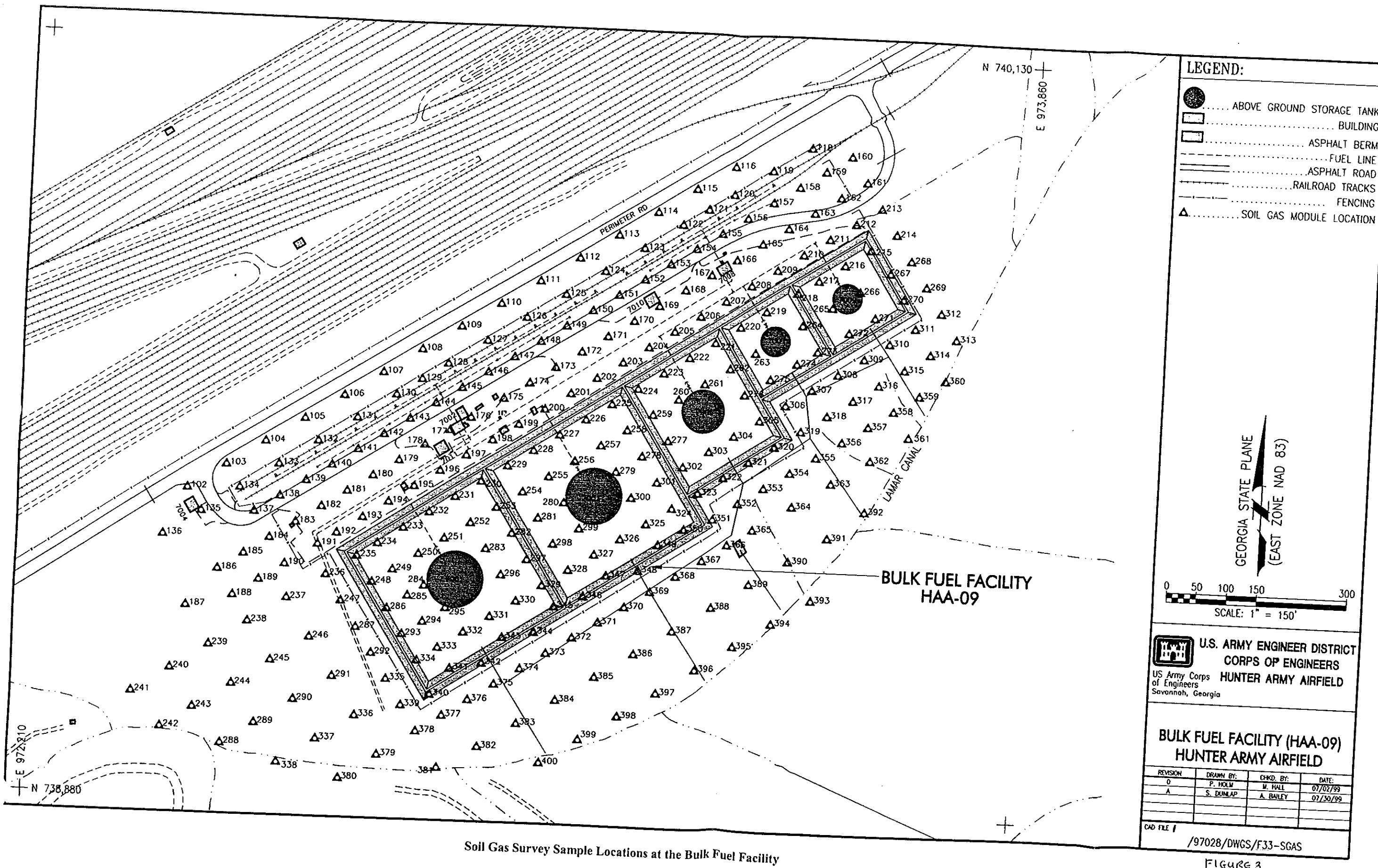
FIGURE NO.: 1

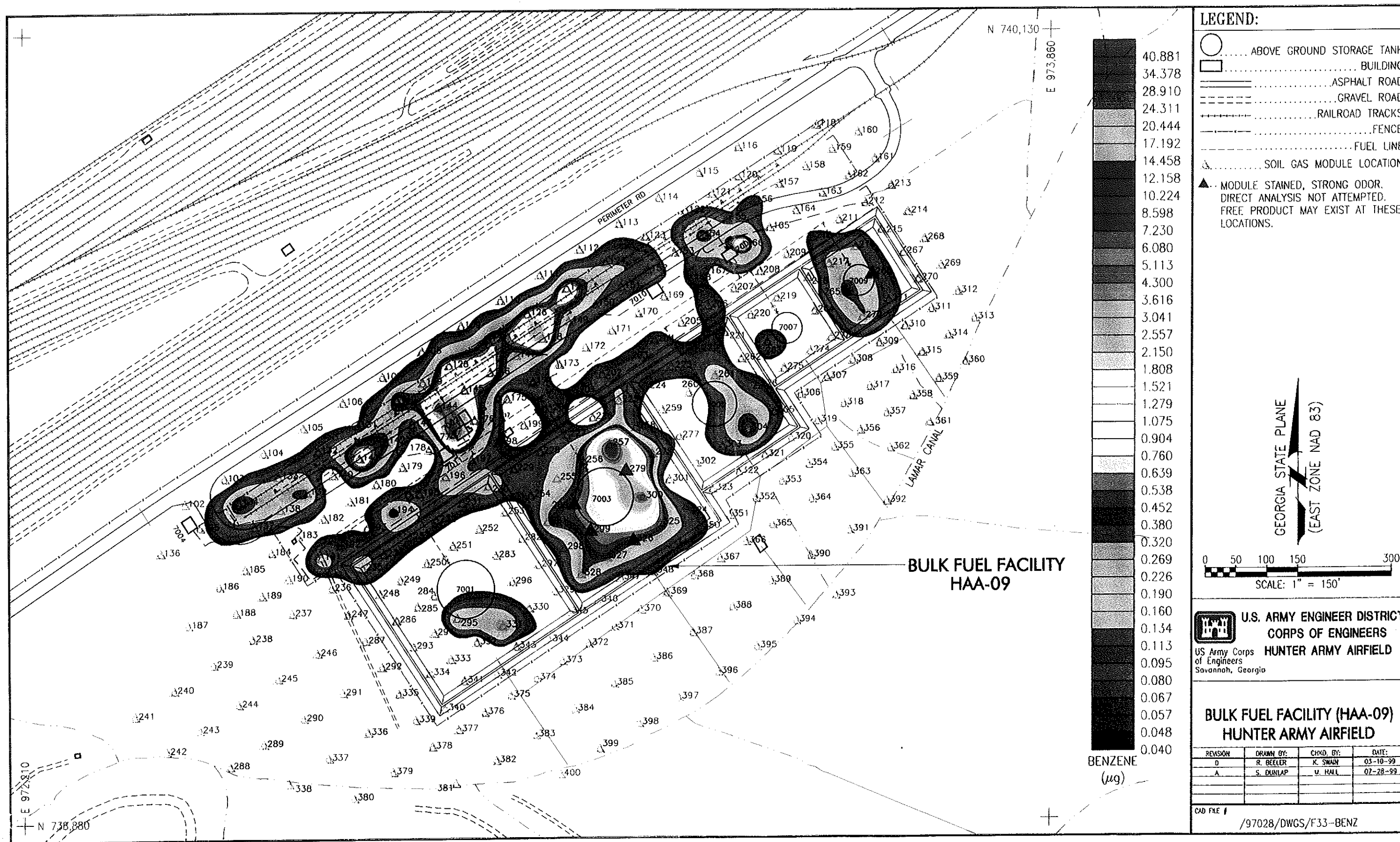
Facility Id. No. 9025113



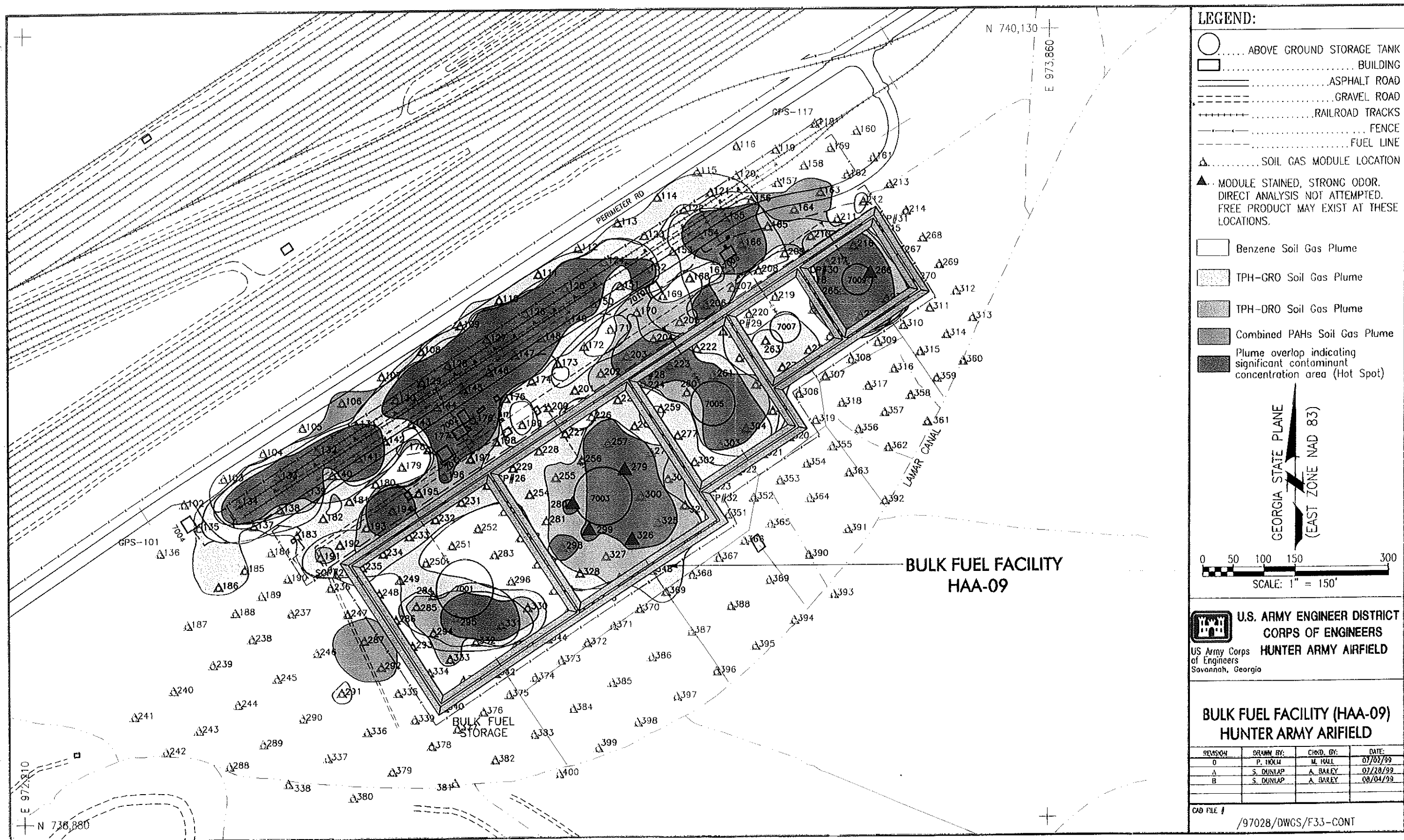
Bulk Fuel Facility (HAA-09), Hunter Army Airfield, Georgia

FIGURE 2.





Soil Gas Concentration Contour Map for Benzene at the Bulk Fuel Facility

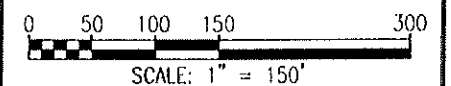




LEGEND:

- ABOVE GROUND STORAGE TANK
- BUILDING
- ASPHALT ROAD
- - - GRAVEL ROAD
- +—+—+ RAILROAD TRACKS
- FENCE
- FUEL LINE
- SOIL GAS PLUME OVERLAP AREA FOR COMBINED PAHs, BENZENE, TPH-DRO & TPH-GRO.
- Sample location where soil gas concentrations exceed the statically determined significant contaminant concentration level

GEORGIA STATE PLANE
(EAST ZONE NAD 83)



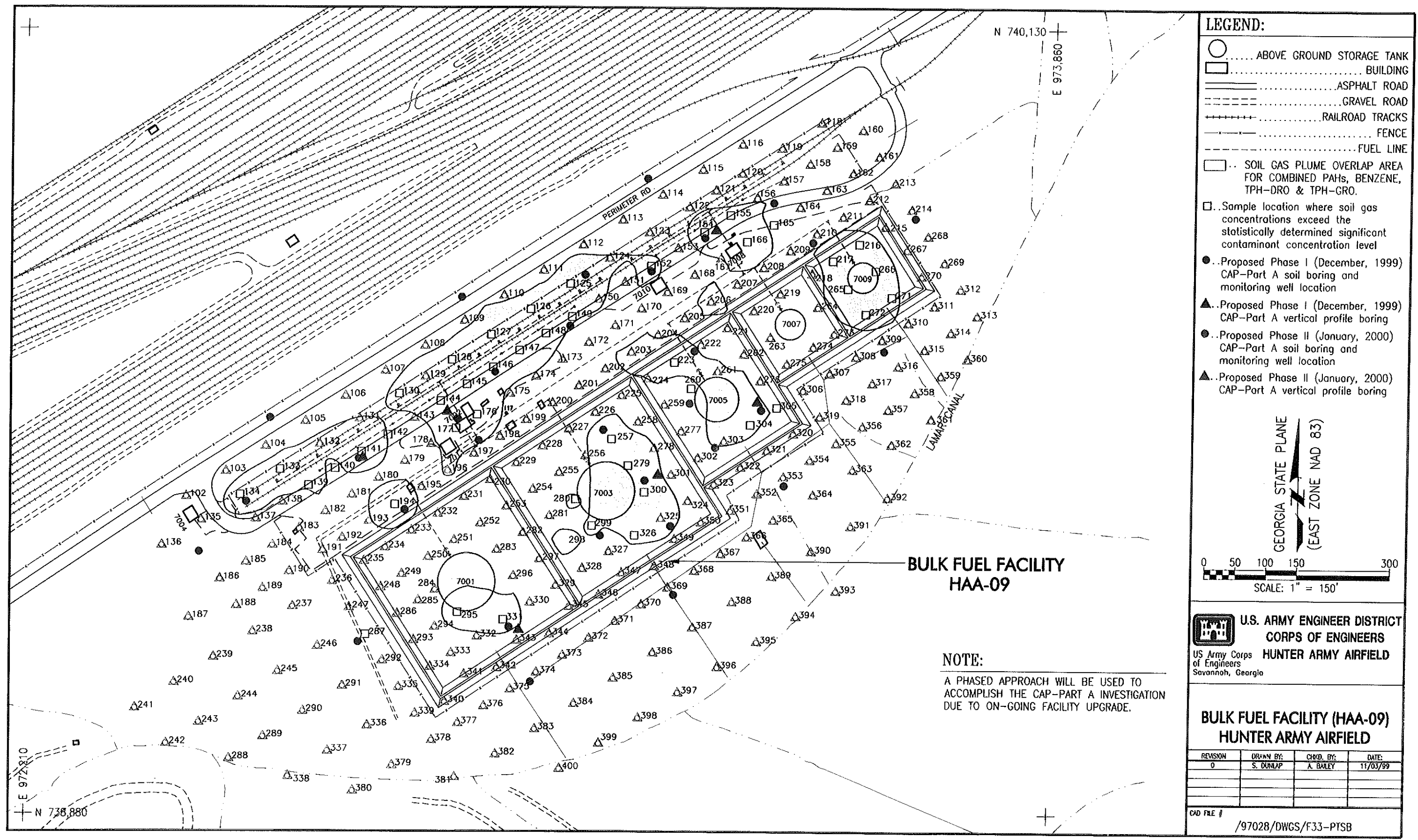
 **U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS**
HUNTER ARMY AIRFIELD
US Army Corps of Engineers
Savannah, Georgia

**BULK FUEL FACILITY (HAA-09)
HUNTER ARMY AIRFIELD**

REVISION	DRAWN BY:	CHKD. BY:	DATE:
0	P. HOLM	M. HALL	07/01/99
1	S. BURNAP	U. HALL	07/30/99

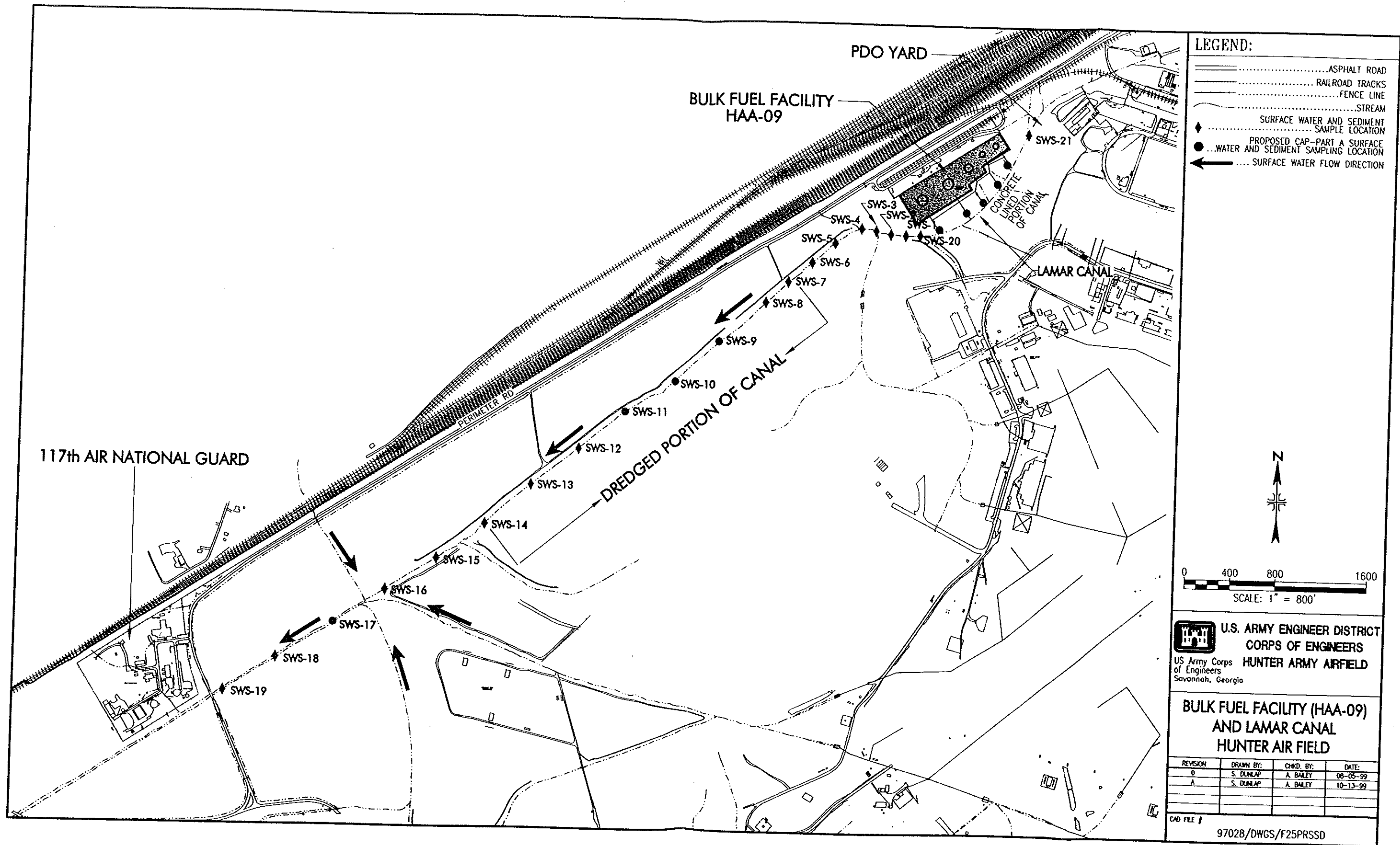
CAD FILE # /97028/DWGS/F33-PTS

Significant Contaminant Concentration Area at Bulk Fuel Facility



Proposed Sampling Locations at the Bulk Fuel Facility

Figure 7



Proposed Surface Water and Sediment Sampling Locations

FIGURE 8

TAB 6

GUST FORMS AND
FIELD ASSESSMENT METHODS

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STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

state use only

Part I: Facility Data

FACILITY ID NUMBER: 9-025113

OWNER'S ID: 197

INITIAL DATE RECEIVED: 12-28-1992

DATE AMENDED LAST: 11-13-1996

NOTIFICATION TYPE: ☐ New ☒ Amended ☐ Closure

OWNERSHIP OF TANK(S): U.S. ARMY / FORT STEWART
Thomas Fry, Environmental Branch Chief
HQS 3D INF DIV (MECH) 2 OF TANK(S): 1

Name : 1557 Frank Cochran Drive
Mailing Address: Fort Stewart, GA 31314-4928
City : FT STEWART
Phone: (912) 767-2010
County: LIBERTY
557 FRANK COCHRAN DRIVE
Zip Code: 31314-4928

OWNERSHIP OF TANK(S):

Name : HUNTER AAF/FAC 7003 7002
Street Address: FAC 7003 7002
City : SAVANNAH
County: CHATHAM
Phone : () -
State : GA
Latitude : :
Zip Code : 31402-5026
Longitude : : :

OWNER TYPE: ☒ Federal ☐ State ☐ Local ☐ Commercial ☐ Private

FACILITY TYPE(S):

☐ Gas Station	☐ Local Government	☐ Contractor
☐ Petroleum Dist	☐ State Government	☐ Truck/Transport
☐ Air Taxi (Airport)	☐ Fed Non-Military	☐ Utilities
☐ Aircraft Owner	☒ Fed Military	☐ Farm
☐ Auto Dealership	☐ Commercial	☐ Residential
☐ Railroad	☐ Industrial	☐ Other
☐ Hospital	☐ Educational	

CONTACT PERSON IN CHARGE OF TANK(S):

Name : U.S. ARMY / FORT STEWART
Address: Thomas Fry, Environmental Branch Chief
City : HQS 3D INF DIV (MECH)
Phone : 1557 Frank Cochran Drive
Fort Stewart, GA 31314-4928
Title: JOHN SPEAR/ENV-ENG
State: GA
Zip Code: 31314-5000
4928

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

FINANCIAL RESPONSIBILITY:

FACILITY ID NUMBER: 9-025113

[X] I meet the financial responsibility requirements of §12-13-9
Official Code of Georgia Annotated by providing or participating
in one of the following financial assurance mechanisms.

Primary Financial Responsibility Mechanism: (check one):

- | | |
|--|---|
| ☐ GUST Trust Fund | ☐ Insurance |
| ☐ Surety Bond | ☐ Guarantee |
| ☐ Letter of Credit | ☐ Trust Fund (other than GUST) |
| ☐ Risk Retention Group | ☐ Other Method |
| ☒ Self-Insured | ☐ None |

If a primary coverage mechanism other than GUST Trust Fund is checked,
provide the following information pursuant to GUST Rule 391-15-.12 (1):

Financial Responsibility Provider (Primary):

Name : _____ City: _____ State: _____
Address: _____
Mechanism Id Number: _____
Mechanism Anniversary Date: _____

Deductible Financial Responsibility, if any: (check one)

E: If your primary Financial Responsibility Mechanism is provided
through participation in GUST Trust Fund by payment of Environmental
Assurance Fees, as required under GUST Rule 391-3-15-.13, you must also
check one of the following boxes indicating how coverage for the GUST
Trust Fund \$10,000 deductible is being provided.

If your primary Financial Responsibility Mechanism is other than GUST
Trust Fund and it has deductible, you must also check one of the following
boxes indicating how coverage for the deductible is being provided.

- | | |
|---|---|
| ☐ Surety Bond | ☐ Insurance |
| ☐ Letter of Credit | ☐ Guarantee |
| ☐ Risk Retention Group | ☐ Trust Fund (other than GUST) |
| ☐ Self-Insured | ☐ Other Method |

Provide the name and address of Financial Responsibility Provider
for deductible pursuant to GUST Rule 391-15-.12 (1):

Financial Responsibility Provider (Deductible):

Name : _____ City: _____ State: _____
Address: _____
Mechanism Id Number: _____
Mechanism Anniversary Date: _____

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STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-025113				
TANK ID	117				
Status of Tank					
Currently In Use					
Temp. Out of Use					
Perm. Out of Use					
Date of Installation	01-01-1963				
Age	35				
Est. Total Capacity	550				
Material of Construction					
Asphalt or Bare Steel	X				
Cath. Protected Steel					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.					
Lined Interior					
Double Walled					
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, explanation					
Date Tank Repaired					
Material	X				
Steel					
Galvanized Steel					
Fiberglass					
Copper					
Cathodically Protected					
Double Walled					
Secondary Containment					
Unknown					
Other, explanation					
Date Piping Installed					
Piping Type					
Suction: No Valve					
Suction: Valve					
Pressure					
Gravity Fed					
Date Piping Repaired					
Substance Stored in Tank					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil					
Other					
Other, explanation	JP-4				

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STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-025113		
TANK ID	117		
Substance Stored in Tank			
Hazardous Substance			
CERCLA Name			
CAS Number			
Mixture			
Mixture, Specification			
Tanks Out of Use/Chq. Ser.			
	Tank	Piping	
Est. Date Last Used	09-96	09-96	
Est. Date Closed	09-96	09-96	
Removed from Ground			
Closed in Ground	X	X	
Filled with Inert Mat.			
Change in Service			
Site Assessment Compl.			
Leak Detected			
Installation			
Certified by Mfg			
Certified by Imple Agn.			
Inspected by Engineer			
Checklists Completed			
Other Allowed Method			
Method Description			
Release Detection	Tank	Piping	
Tank Tightness Testing			
Inventory Controls			
SIR			
Automatic Tank Gauging			
Inter. Mon./Double Wall			
Groundwater Monitoring			
Manual Tank Gauging			
Vapor Monitoring			
Inter. Mon./Sec. Cont.			
Auto. Line Leak Detect.			
Line Tightness Testing			
Other Method			
Other Description			
Spill and Overfill			
Date Overfill Device			
Date Spill Device			
Installer Certification			
Name			
Position			
any			
Date			

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STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part III: Certifications

PATH OF
INSTALLATION: I certify the information concerning installation of the UST system, release detection, and spill/overfill protection specified in Part II-Tank data is true to the best of my belief and knowledge.

Installer:

Company

Company Address

Authorized Representative

Signature

Date

Title

Telephone Number (include Area Code)

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Owner:

Thomas C. Fry

Environmental Branch Chief

Owner Name

Title

Thomas C. Fry
Owner's Signature

11/03/99
Date

CLOSURE REPORT
UST #117, Facility Id. No. 9-025113

TAB 6
FIELD ASSESSMENT METHODS
(Tank In-Place Closure-September 1996)

SOIL SAMPLES

One (1) soil sample was collected for analytical testing by Anderson Columbia Environmental, Inc. (ACE) personnel two (2) feet below the bottom of tank, immediately adjacent to the tank (i.e., UST was closed in-place, so sampling directly beneath the bottom of the UST was not possible). The soil sample was collected into appropriate (i.e., depending on required analyses) precleaned, labeled laboratory sample bottles and immediately placed on ice. The samples were shipped under Chain of Custody to the Corps of Engineers contract laboratory, ECOSYS, Laboratory Services, located in Norcross, Georgia.

Groundwater sampling was not conducted during in-place closure activities.

CLOSURE REPORT
UST #117, FACILITY ID. NO. 9-025113

CLOSURE OF PIPING
TAB 6

The undersigned certifies that the piping associated with the former underground storage tank #117, located at Building 7002, Hunter Army Airfield, Georgia, was closed in-place by our contractor, Anderson Columbia Environmental. In-place closure consisted of purging the line and grouting both ends.

The piping is greater than 25 feet, and sampling will occur in and around all site piping during the CAP-Part A investigation.

Name: Thomas C. Fry

Title: Acting Chief, ENRD

Signature: Thomas C. Fry

Date: 11/03/99

TAB 7
ANALYTICAL DATA

CLOSURE REPORT
UST #117, FACILITY ID. NO. 9-025113

LABORATORY ANALYTICAL DATA
TAB 7

The analytical results from the one soil sample obtained during UST closure activities (September 1996) are provided for your use and convenience. All corresponding chain of custody forms and data validation is also included in this section.

NOTE: Figure #1, provided in Tab 5, indicates the sampling location (S1) from the in-place closure of UST #117.

UST #117, BUILDING 7003, FACILITY ID. NO. 9-026113
SUMMARY OF SOIL ANALYTICAL DATA OBTAINED DURING UST CLOSURE SAMPLING (JANUARY 1998)

Station: Sample Number:		Screening Level GA UST	8102-TK117-S1 8102
Sample Depth:			5 feet bgs
Media:			Soil
Sample Type:			Grab
Collection Date:			9/30/98
Units:			(µg/kg)
Benzene		8	13
Toluene		600	2.6
Ethylbenzene		10,000	6.5
Xylenes, Total		700,000	5.2
PAHs		-	ND
TPH-Diesel Range Organics (mg/kg)		-	163

10 Bold values indicate results exceeding Georgia UST action levels.
ND = Not detected

ECOSYS

LABORATORY SERVICES

ANALYTICAL REPORT

1412 Oakbrook Drive
Suite 105
Norcross, Georgia 30093
Phone (770) 368-0636
Fax (770) 368-0806

USACE-SAVANNAH DISTRICT
Brent Rose
EN-GG/Mark Harvison, 100 West Oglethorpe Ave
Savannah, GA 31401-3640
P: 912-652-5622 F: 912-652-5311

Client Code 2911223
Ledger Number 108362
P.O. Number DO 0102
Date Received 10/03/96
Time Received 10:31
Reporting Date 11/11/96

Ledger Comment Results are reported on a dry weight basis.

Lab Sample ID AB39757 Client Site # WASTE OIL UST-SOIL
Project # 8102 Client Sample # 8102-TK117-S1
Project Name Hunter
Sampling Date/Time 09/30/96 14:30

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	DATE OF ANALYST ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 10/07/96		Batch 1007960001		
8270B	PHENOL	\$06013	Below MDL	430	ug/Kg	1.0	108-95-2	GC 10/09/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$06013	Below MDL	430	ug/Kg	1.0	111-44-4	GC 10/09/96
8270B	2-CHLOROPHENOL	\$06013	Below MDL	430	ug/Kg	1.0	95-57-8	GC 10/09/96
8270B	1,3-DICHLOROBENZENE	\$06013	Below MDL	430	ug/Kg	1.0	541-73-1	GC 10/09/96
8270B	1,4-DICHLOROBENZENE	\$06013	Below MDL	430	ug/Kg	1.0	106-46-7	GC 10/09/96
8270B	1,2-DICHLOROBENZENE	\$06013	Below MDL	430	ug/Kg	1.0	95-50-1	GC 10/09/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$06013	Below MDL	430	ug/Kg	1.0	108-80-1	GC 10/09/96
8270B	2-METHYLPHENOL	\$06013	Below MDL	430	ug/Kg	1.0	95-48-7	GC 10/09/96
8270B	4-METHYLPHENOL	\$06013	Below MDL	430	ug/Kg	1.0	106-44-5	GC 10/09/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$06013	Below MDL	430	ug/Kg	1.0	821-84-7	GC 10/09/96
8270B	HEXACHLOROETHANE	\$06013	Below MDL	430	ug/Kg	1.0	87-72-1	GC 10/09/96
8270B	NITROBENZENE	\$06013	Below MDL	430	ug/Kg	1.0	98-95-3	GC 10/09/96
8270B	ISOPHORONE	\$06013	Below MDL	430	ug/Kg	1.0	78-59-1	GC 10/09/96
8270B	2-NITROPHENOL	\$06013	Below MDL	860	ug/Kg	1.0	88-75-5	GC 10/09/96
8270B	2,4-DIMETHYLPHENOL	\$06013	Below MDL	430	ug/Kg	1.0	105-87-9	GC 10/09/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$06013	Below MDL	430	ug/Kg	1.0	111-91-1	GC 10/09/96
8270B	2,4-DICHLOROPHENOL	\$06013	Below MDL	430	ug/Kg	1.0	120-83-2	GC 10/09/96
8270B	1,2,4-TRICHLOROBENZENE	\$06013	Below MDL	430	ug/Kg	1.0	120-82-1	GC 10/09/96
8270B	NAPHTHALENE	\$06013	Below MDL	430	ug/Kg	1.0	91-20-3	GC 10/09/96
8270B	4-CHLOROANILINE	\$06013	Below MDL	430	ug/Kg	1.0	106-47-8	GC 10/09/96
8270B	HEXACHLOROBUTADIENE	\$06013	Below MDL	430	ug/Kg	1.0	87-88-3	GC 10/09/96
8270B	4-CHLORO-3-METHYLPHENOL	\$06013	Below MDL	860	ug/Kg	1.0	59-50-7	GC 10/09/96
8270B	2-METHYLNAPHTHALENE	\$06013	Below MDL	430	ug/Kg	1.0	91-57-6	GC 10/09/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$06013	Below MDL	430	ug/Kg	1.0	77-47-4	GC 10/09/96
8270B	2,4,6-TRICHLOROPHENOL	\$06013	Below MDL	430	ug/Kg	1.0	88-06-2	GC 10/09/96
8270B	2,4,5-TRICHLOROPHENOL	\$06013	Below MDL	430	ug/Kg	1.0	95-95-4	GC 10/09/96
8270B	2-CHLORONAPHTHALENE	\$06013	Below MDL	430	ug/Kg	1.0	91-58-7	GC 10/09/96
8270B	2-NITROANILINE	\$06013	Below MDL	430	ug/Kg	1.0	88-74-4	GC 10/09/96
8270B	DIMETHYL PHTHALATE	\$06013	Below MDL	430	ug/Kg	1.0	131-11-3	GC 10/09/96

Lab Sample ID AB39757
 Project # 8102
 Project Name Hunter
 Sampling Date/Time 09/30/96 14:30

Client Site # WASTE OIL UST-SOIL
 Client Sample # 8102-TK117-S1

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METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 10/07/96		Batch 1007960001			
8270B	ACENAPHTHYLENE	\$06013	Below MDL	430	ug/Kg	1.0	208-98-8	GC	10/09/96
8270B	2,6-DINITROTOLUENE	\$06013	Below MDL	430	ug/Kg	1.0	606-20-2	GC	10/09/96
8270B	3-NITROANILINE	\$06013	Below MDL	430	ug/Kg	1.0	99-09-2	GC	10/09/96
8270B	ACENAPHTHENE	\$06013	Below MDL	430	ug/Kg	1.0	83-32-9	GC	10/09/96
8270B	2,4-DINITROPHENOL	\$06013	Below MDL	2200	ug/Kg	1.0	51-28-5	GC	10/09/96
8270B	4-NITROPHENOL	\$06013	Below MDL	2200	ug/Kg	1.0	100-02-7	GC	10/09/96
8270B	DIBENZOFURAN	\$06013	Below MDL	430	ug/Kg	1.0	132-84-6	GC	10/09/96
8270B	2,4-DINITROTOLUENE	\$06013	Below MDL	430	ug/Kg	1.0	121-14-2	GC	10/09/96
8270B	DIETHYL PHTHALATE	\$06013	Below MDL	430	ug/Kg	1.0	84-68-2	GC	10/09/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$06013	Below MDL	430	ug/Kg	1.0	7005-72-3	GC	10/09/96
8270B	FLUORENE	\$06013	Below MDL	430	ug/Kg	1.0	86-73-7	GC	10/09/96
8270B	4-NITROANILINE	\$06013	Below MDL	430	ug/Kg	1.0	100-01-6	GC	10/09/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$06013	Below MDL	2151	ug/Kg	1.0	534-52-1	GC	10/09/96
8270B	N-NITROSODIPHENYLAMINE	\$06013	Below MDL	430	ug/Kg	1.0	86-30-8	GC	10/09/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$06013	Below MDL	430	ug/Kg	1.0	101-55-3	GC	10/09/96
8270B	HEXACHLOROBENZENE	\$06013	Below MDL	430	ug/Kg	1.0	118-74-1	GC	10/09/96
8270B	PENTACHLOROPHENOL	\$06013	Below MDL	2200	ug/Kg	1.0	87-88-5	GC	10/09/96
8270B	PHENANTHRENE	\$06013	Below MDL	430	ug/Kg	1.0	85-01-8	GC	10/09/96
8270B	ANTHRACENE	\$06013	Below MDL	430	ug/Kg	1.0	120-12-7	GC	10/09/96
8270B	DI-N-BUTYL PHTHALATE	\$06013	Below MDL	430	ug/Kg	1.0	84-74-2	GC	10/09/96
8270B	FLUORANTHENE	\$06013	Below MDL	430	ug/Kg	1.0	206-44-0	GC	10/09/96
8270B	PYRENE	\$06013	Below MDL	430	ug/Kg	1.0	129-00-0	GC	10/09/96
8270B	BUTYL BENZYL PHTHALATE	\$06013	Below MDL	430	ug/Kg	1.0	85-68-7	GC	10/09/96
8270B	3,3'-DICHLOROBENZIDINE	\$06013	Below MDL	860	ug/Kg	1.0	91-94-1	GC	10/09/96
8270B	BENZO(A)ANTHRACENE	\$06013	Below MDL	430	ug/Kg	1.0	56-55-3	GC	10/09/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$06013	Below MDL	430	ug/Kg	1.0	117-81-7	GC	10/09/96
8270B	CHRYSENE	\$06013	Below MDL	430	ug/Kg	1.0	218-01-8	GC	10/09/96
8270B	DI-N-OCTYL PHTHALATE	\$06013	Below MDL	430	ug/Kg	1.0	117-84-0	GC	10/09/96
8270B	BENZO(B)FLUORANTHENE	\$06013	Below MDL	430	ug/Kg	1.0	205-99-2	GC	10/09/96
8270B	BENZO(K)FLUORANTHENE	\$06013	Below MDL	430	ug/Kg	1.0	207-08-9	GC	10/09/96
8270B	BENZO(A)PYRENE	\$06013	Below MDL	430	ug/Kg	1.0	50-32-8	GC	10/09/96
8270B	INDENO(1,2,3-CD)PYRENE	\$06013	Below MDL	430	ug/Kg	1.0	193-39-5	GC	10/09/96
8270B	DIBENZO(A,H)ANTHRACENE	\$06013	Below MDL	430	ug/Kg	1.0	53-70-3	GC	10/09/96
8270B	BENZO(G,H,I)PERYLENE	\$06013	Below MDL	430	ug/Kg	1.0	191-24-2	GC	10/09/96
8270B	CARBAZOLE	\$06013	Below MDL	430	ug/Kg	1.0	88-74-8	GC	10/09/96
AROMATIC VOC (GC) SOIL				Prep Date 10/13/96		Batch 1013960001			
8020A	BENZENE	\$08006	13.0	1.3	ug/Kg	1.0	71-43-2	DTA	10/13/96
8020A	TOLUENE	\$08006	2.6	1.3	ug/Kg	1.0	108-88-3	DTA	10/13/96
8020A	ETHYLBENZENE	\$08006	6.5	1.3	ug/Kg	1.0	100-41-4	DTA	10/13/96
8020A	XYLENES (TOTAL)	\$08006	5.2	1.3	ug/Kg	1.0	1330-20-7	DTA	10/13/96
8020A	CHLOROBENZENE	\$08006	Below MDL	1.3	ug/Kg	1.0	108-90-7	DTA	10/13/96
8020A	1,2-DICHLOROBENZENE	\$08006	Below MDL	1.3	ug/Kg	1.0	95-50-1	DTA	10/13/96
8020A	1,3-DICHLOROBENZENE	\$08006	Below MDL	1.3	ug/Kg	1.0	541-73-1	DTA	10/13/96
8020A	1,4-DICHLOROBENZENE	\$08006	Below MDL	1.3	ug/Kg	1.0	106-48-7	DTA	10/13/96
8020A	TERT-METHYLBUTYL ETHER	\$08006	Below MDL	1.3	ug/Kg	1.0	1834-04-4	DTA	10/13/96

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		Prep Date 10/11/96		Batch 101198A	
418.1	TPH (FTIR) SOIL	08008	163	7 mg/Kg 1.0	ML 10/11/96
		Prep Date 10/07/96		Batch 100796	
0.3	% TOTAL SOLIDS SOIL (N/C)	09099	76.7	0.1 % 1.0	CW 10/07/96

Lab Sample ID AB39758 Client Site #
 Project # 8102 Client Sample # TEMP VIAL
 Project Name Hunter
 Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
				Prep Date 10/03/96		Batch 100396			
Temperature at receiving time:		TEMP	4	NONE	oC	1.0	QN		10/03/96

Lab Sample ID AB39858 Client Site #
 Project # Client Sample #
 Project Name
 Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BLANK - SEMI (GC/MS) SOIL				Prep Date 10/07/96		Batch 1007960001			
0B	PHENOL	\$B8270S	Below MDL	330	ug/Kg	1.0	108-95-2	GC	10/09/96
8270B	BIS(2-CHLOROETHYL) ETHER	\$B8270S	Below MDL	330	ug/Kg	1.0	111-44-4	GC	10/09/96
8270B	2-CHLOROPHENOL	\$B8270S	Below MDL	330	ug/Kg	1.0	95-57-8	GC	10/09/96
8270B	1,3-DICHLOROBENZENE	\$B8270S	Below MDL	330	ug/Kg	1.0	541-73-1	GC	10/09/96
8270B	1,4-DICHLOROBENZENE	\$B8270S	Below MDL	330	ug/Kg	1.0	106-46-7	GC	10/09/96
8270B	1,2-DICHLOROBENZENE	\$B8270S	Below MDL	330	ug/Kg	1.0	95-50-1	GC	10/09/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	\$B8270S	Below MDL	330	ug/Kg	1.0	108-60-1	GC	10/09/96
8270B	2-METHYLPHENOL	\$B8270S	Below MDL	330	ug/Kg	1.0	95-48-7	GC	10/09/96
8270B	4-METHYLPHENOL	\$B8270S	Below MDL	330	ug/Kg	1.0	106-44-5	GC	10/09/96
8270B	N-NITROSODI-N-PROPYLAMINE	\$B8270S	Below MDL	330	ug/Kg	1.0	821-64-7	GC	10/09/96
8270B	HEXACHLOROETHANE	\$B8270S	Below MDL	330	ug/Kg	1.0	87-72-1	GC	10/09/96
8270B	NITROBENZENE	\$B8270S	Below MDL	330	ug/Kg	1.0	98-95-3	GC	10/09/96
8270B	ISOPHORONE	\$B8270S	Below MDL	330	ug/Kg	1.0	78-59-1	GC	10/09/96
8270B	2-NITROPHENOL	\$B8270S	Below MDL	660	ug/Kg	1.0	88-76-5	GC	10/09/96
8270B	2,4-DIMETHYLPHENOL	\$B8270S	Below MDL	330	ug/Kg	1.0	105-67-9	GC	10/09/96
8270B	BIS(2-CHLOROETHOXY)METHANE	\$B8270S	Below MDL	330	ug/Kg	1.0	111-91-1	GC	10/09/96
8270B	2,4-DICHLOROPHENOL	\$B8270S	Below MDL	330	ug/Kg	1.0	120-83-2	GC	10/09/96
8270B	1,2,4-TRICHLOROBENZENE	\$B8270S	Below MDL	330	ug/Kg	1.0	120-82-1	GC	10/09/96
8270B	NAPHTHALENE	\$B8270S	Below MDL	330	ug/Kg	1.0	91-20-3	GC	10/09/96
8270B	4-CHLOROANILINE	\$B8270S	Below MDL	330	ug/Kg	1.0	108-47-8	GC	10/09/96
8270B	HEXACHLOROBTADIENE	\$B8270S	Below MDL	330	ug/Kg	1.0	87-88-3	GC	10/09/96
8270B	4-CHLORO-3-METHYLPHENOL	\$B8270S	Below MDL	660	ug/Kg	1.0	59-50-7	GC	10/09/96
8270B	2-METHYLNAPHTHALENE	\$B8270S	Below MDL	330	ug/Kg	1.0	91-57-6	GC	10/09/96
8270B	HEXACHLOROCYCLOPENTADIENE	\$B8270S	Below MDL	330	ug/Kg	1.0	77-47-4	GC	10/09/96
8270B	2,4,6-TRICHLOROPHENOL	\$B8270S	Below MDL	330	ug/Kg	1.0	88-08-2	GC	10/09/96
8270B	2,4,5-TRICHLOROPHENOL	\$B8270S	Below MDL	330	ug/Kg	1.0	95-95-4	GC	10/09/96
8270B	2-CHLORONAPHTHALENE	\$B8270S	Below MDL	330	ug/Kg	1.0	91-59-7	GC	10/09/96

Lab Sample ID AB39858

Client Site #

Project #

Client Sample #

Project Name

Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BLANK - SEMI (GC/MS) SOIL				Prep Date 10/07/96		Batch 1007960001			
8270B	2-NITROANILINE	\$B8270S	Below MDL	330	ug/Kg	1.0	88-74-4	GC	10/09/96
8270B	DIMETHYL PHTHALATE	\$B8270S	Below MDL	330	ug/Kg	1.0	131-11-3	GC	10/09/96
8270B	ACENAPHTHYLENE	\$B8270S	Below MDL	330	ug/Kg	1.0	208-96-8	GC	10/09/96
8270B	2,6-DINITROTOLUENE	\$B8270S	Below MDL	330	ug/Kg	1.0	608-20-2	GC	10/09/96
8270B	3-NITROANILINE	\$B8270S	Below MDL	330	ug/Kg	1.0	99-09-2	GC	10/09/96
8270B	ACENAPHTHENE	\$B8270S	Below MDL	330	ug/Kg	1.0	83-32-9	GC	10/09/96
8270B	2,4-DINITROPHENOL	\$B8270S	Below MDL	1650	ug/Kg	1.0	51-28-5	GC	10/09/96
8270B	4-NITROPHENOL	\$B8270S	Below MDL	1650	ug/Kg	1.0	100-02-7	GC	10/09/96
8270B	DIBENZOFURAN	\$B8270S	Below MDL	330	ug/Kg	1.0	132-84-9	GC	10/09/96
8270B	2,4-DINITROTOLUENE	\$B8270S	Below MDL	330	ug/Kg	1.0	121-14-2	GC	10/09/96
8270B	DIETHYL PHTHALATE	\$B8270S	Below MDL	330	ug/Kg	1.0	84-68-2	GC	10/09/96
8270B	4-CHLOROPHENYL PHENYL ETHER	\$B8270S	Below MDL	330	ug/Kg	1.0	7005-72-3	GC	10/09/96
8270B	FLUORENE	\$B8270S	Below MDL	330	ug/Kg	1.0	88-73-7	GC	10/09/96
8270B	4-NITROANILINE	\$B8270S	Below MDL	330	ug/Kg	1.0	100-01-8	GC	10/09/96
8270B	2-METHYL-4,6-DINITROPHENOL	\$B8270S	Below MDL	1650	ug/Kg	1.0	534-52-1	GC	10/09/96
8270B	N-NITROSODIPHENYLAMINE	\$B8270S	Below MDL	330	ug/Kg	1.0	88-30-6	GC	10/09/96
8270B	4-BROMOPHENYL PHENYL ETHER	\$B8270S	Below MDL	330	ug/Kg	1.0	101-55-3	GC	10/09/96
8270B	HEXACHLOROBENZENE	\$B8270S	Below MDL	330	ug/Kg	1.0	118-74-1	GC	10/09/96
8270B	PENTACHLOROPHENOL	\$B8270S	Below MDL	1650	ug/Kg	1.0	87-88-5	GC	10/09/96
8270B	PHENANTHRENE	\$B8270S	Below MDL	330	ug/Kg	1.0	85-01-8	GC	10/09/96
8270B	ANTHRACENE	\$B8270S	Below MDL	330	ug/Kg	1.0	120-12-7	GC	10/09/96
8270B	DI-N-BUTYL PHTHALATE	\$B8270S	Below MDL	330	ug/Kg	1.0	84-74-2	GC	10/09/96
8270B	FLUORANTHENE	\$B8270S	Below MDL	330	ug/Kg	1.0	208-44-0	GC	10/09/96
8270B	PYRENE	\$B8270S	Below MDL	330	ug/Kg	1.0	129-00-0	GC	10/09/96
8270B	BUTYL BENZYL PHTHALATE	\$B8270S	Below MDL	330	ug/Kg	1.0	85-68-7	GC	10/09/96
8270B	3,3'-DICHLOROBENZIDINE	\$B8270S	Below MDL	660	ug/Kg	1.0	91-94-1	GC	10/09/96
8270B	BENZO(A)ANTHRACENE	\$B8270S	Below MDL	330	ug/Kg	1.0	56-55-3	GC	10/09/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	\$B8270S	Below MDL	330	ug/Kg	1.0	117-81-7	GC	10/09/96
8270B	CHRYSENE	\$B8270S	Below MDL	330	ug/Kg	1.0	218-01-9	GC	10/09/96
8270B	DI-N-OCTYL PHTHALATE	\$B8270S	Below MDL	330	ug/Kg	1.0	117-84-0	GC	10/09/96
8270B	BENZO(B)FLUORANTHENE	\$B8270S	Below MDL	330	ug/Kg	1.0	205-99-2	GC	10/09/96
8270B	BENZO(K)FLUORANTHENE	\$B8270S	Below MDL	330	ug/Kg	1.0	207-08-9	GC	10/09/96
8270B	BENZO(A)PYRENE	\$B8270S	Below MDL	330	ug/Kg	1.0	50-32-8	GC	10/09/96
8270B	INDENO(1,2,3-CD)PYRENE	\$B8270S	Below MDL	330	ug/Kg	1.0	193-39-5	GC	10/09/96
8270B	DIBENZO(A,H)ANTHRACENE	\$B8270S	Below MDL	330	ug/Kg	1.0	53-70-3	GC	10/09/96
8270B	BENZO(G,H,I)PERYLENE	\$B8270S	Below MDL	330	ug/Kg	1.0	191-24-2	GC	10/09/96
8270B	CARBAZOLE	\$B8270S	Below MDL	330	ug/Kg	1.0	88-74-8	GC	10/09/96

Lab Sample ID AB40120
 Project #
 Project Name
 Sampling Date/Time / /

Client Site #
 Client Sample #

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BLANK - AROMATIC VOC (GC) SOIL				Prep Date 10/13/96		Batch 1013960001		
8020A	BENZENE	\$B8020S	Below MDL	1.0 ug/Kg	1.0	71-43-2	MA	10/13/96
8020A	TOLUENE	\$B8020S	Below MDL	1.0 ug/Kg	1.0	108-88-3	MA	10/13/96
8020A	ETHYLBENZENE	\$B8020S	Below MDL	1.0 ug/Kg	1.0	100-41-4	MA	10/13/96
8020A	XYLENES (TOTAL)	\$B8020S	Below MDL	1.0 ug/Kg	1.0	133-20-7	MA	10/13/96
8020A	CHLOROBENZENE	\$B8020S	Below MDL	1.0 ug/Kg	1.0	108-90-7	MA	10/13/96
8020A	1,2-DICHLOROBENZENE	\$B8020S	Below MDL	1.0 ug/Kg	1.0	95-50-1	MA	10/13/96
8020A	1,3-DICHLOROBENZENE	\$B8020S	Below MDL	1.0 ug/Kg	1.0	541-73-1	MA	10/13/96
8020A	1,4-DICHLOROBENZENE	\$B8020S	Below MDL	1.0 ug/Kg	1.0	106-46-7	MA	10/13/96
8020A	TERT-METHYLBUTYL ETHER	\$B8020S	Below MDL	1.0 ug/Kg	1.0	1634-04-4	MA	10/13/96

Lab Sample ID AB40977
 Project #
 Project Name
 Sampling Date/Time / /

Client Site #
 Client Sample #

METHOD	ANALYTE	TEST CODE	RESULT	MDL UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
				Prep Date 10/11/96		Batch 101196A		
418.1	TPH BLANK - SOIL	B4181S	Below MDL	5.0 mg/Kg	1.0		ML	10/11/96


 Certifying Scientist

Organics and Inorganics in Wastewater, Solids, and Wastes

NC-DEHNR 441, SC-DHEC 98013, GA, TN-DOH 02826, UT-DOH E-228, FL-DEP 940134 HRS E87511 (Water) HRS 87485 (Drinking Water), NY-DEH ELAP 11551, WI-DNR 998014380
 Radioactive Materials License ISO 9000 EPA ID EPA Reg Waste GA APHIS Fed Lab ID US Army Corps of Engineers Validation
 GA-DNR 1283-1 A2LA 0504-01 GA-00058 GA-0001011006 S-3986 58-188334

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CHAIN OF CUSTODY

Client Name and Address:
 USACE SAVANNAH DISTRICT
 ENR/OC Mark Harrison
 Savannah, GA 31401-3640
 Mark Harrison - Client ID: 20112224

Sampler: Kevin P. Hoyle
 Date Sampled: 9-30-96 1430
 Time Sampled: 1430

Project Name: Hunter
 PO: DO 0102
 Project #: 8102
 Bid #: COE
 Routine: ☐ RUSH ☐
 Note: Rush Charges May Apply

Lab Code - For Lab use only

Project #: 8102
 Bid #: COE
 Routine: ☐ RUSH ☐
 Note: Rush Charges May Apply

Lab Code - For Lab use only

Lab Code - For Lab use only	Date Sampled	Time Sampled	Grab	Comp	Sample Number	Site Code	Soil	Water	Non-aqueous liquid	Containers	EcoSys Test Code/Name	Copy To:
Sample 1	AB 39757	9-30-96 1430	✓		8102-TK 117-51		✓	✓	✓	3	8020	Temp at 1000
Sample 2	AB 39758				Temp-Vial		✓	✓	✓	1	8020	Temp at 1000
Sample 3							✓	✓	✓			
Sample 4							✓	✓	✓			
Sample 5							✓	✓	✓			
Sample 6							✓	✓	✓			
Sample 7							✓	✓	✓			
Sample 8							✓	✓	✓			
Sample 9							✓	✓	✓			

Relinquished by: Kevin Hoyle
 Date/Time Relinquished: 9-30-96 1000
 Relinquished by: [Signature]
 Date/Time Relinquished: 9-30-96 1000

Relinquished by: [Signature]
 Date/Time Relinquished: 9-30-96 1000

Relinquished by: [Signature]
 Date/Time Relinquished: 9-30-96 1000

Custody Seal? ☒ YES ☐ NO
 Entered into LIMS: [Signature]
 COC Reviewed by: [Signature]
 Storage Location: Refry #4
 Ledger Number: 108362
 Due Date: 10/8/96

TAB 9

MANIFESTS

MANIFESTS

UST #117 was closed in-place with a concrete slurry mixture on September 30, 1996. Therefore, there are no manifests associated with the removal of UST #117, Facility Identification Number 9-025113.

TAB 10

HUNTER ARMY AIRFIELD
AREA MAP

