

CLOSURE REPORT

Used Oil Storage Tank
Building 1503, UST #215
Facility ID #: 9-089015
Fort Stewart, Georgia

Prepared by

Fort Stewart
Directorate of Public Works
Environmental Branch

July 1999

Fort Stewart, Georgia
Underground Storage Tank Removal and Closure Report

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Prepared by

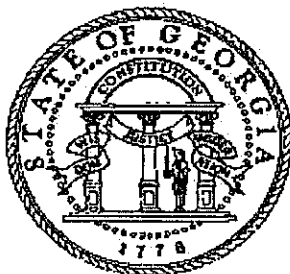
Fort Stewart
Directorate of Public Works
Environmental Branch

TAB 1

GEORGIA CLOSURE REPORT
FORMS

Georgia Department of Natural Resources

Environmental Protection Division
Underground Storage Tank Management Program
4244 International Parkway, 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/Ft. Stewart
Phone Number: (912) 767-2010
Company: US Army
Address: Cdr. 3rd Inf. Div. (Mech.), 1557 Frank Cochran Drive
Ft. Stewart GA 31314-4928
(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: 07/27/99

2. UST System Site Location:

Facility Name: Ft. Stewart, GA FAC 1503
Street Address: FAC 1503
Ft. Stewart GA 31314-5000
(city) (state) (zip code)
Facility ID# 9-089015

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: [Signature] Date: 12/4/96

4. Site-specific Hydrogeology:

Depth to Groundwater ~6 ft. if encountered
(encountered during May 98 sampling event)

☐ 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: See Tab 5
- Piping Trenches
- Water Lines
- North Arrow
- Dispensers
- Tanks with their ID#s, corresponding to the Notification Form 7530-1

6. Tank Removal

- Date of Removal: 31-Jul-96
- Tank Information:

Tank #	Tank Size (gallons)
215	500

Tank Contents
Used Oil

(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 _____

9. Excavation and Treatment/Disposal of Contaminated Soil: Refer to Tab 9

- 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:
Distance to closest surface water body: _____ mile(s) or _____ 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.

TAB 4

SITE PHOTOGRAPHS



Photo 1. Tank 215 during product sampling.

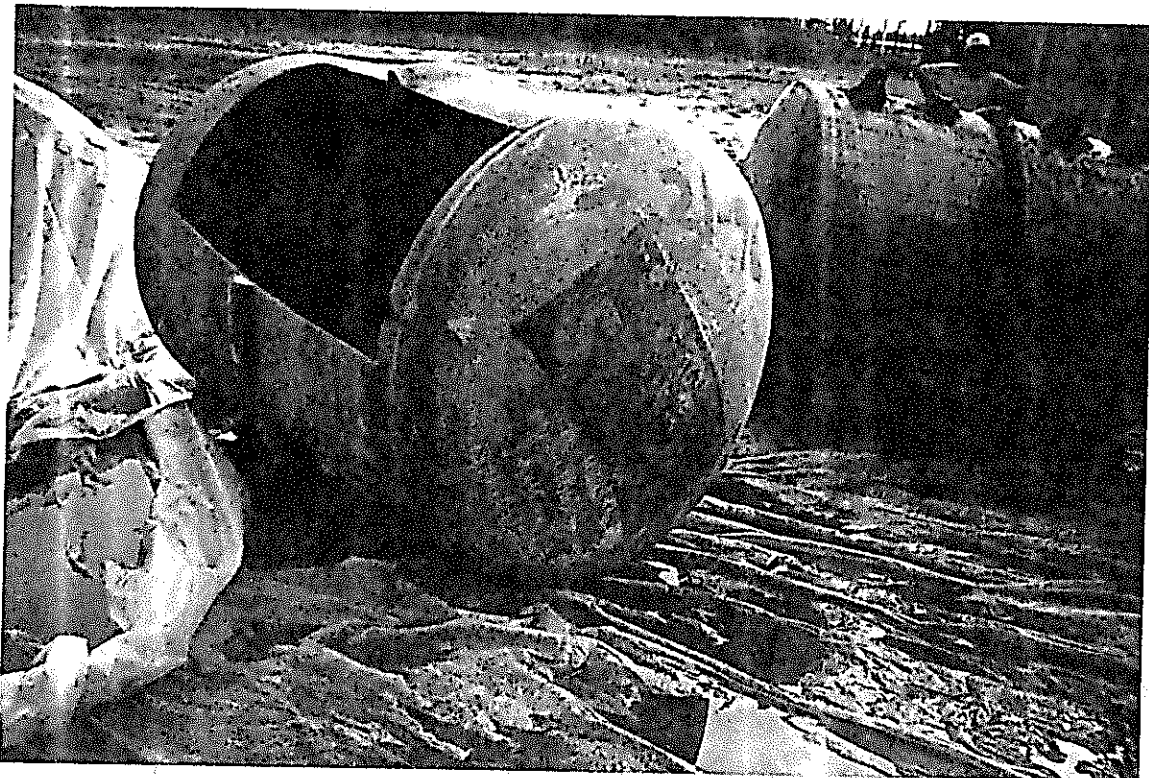


Photo 2. Tank 215 after removal, cutting, and cleaning.

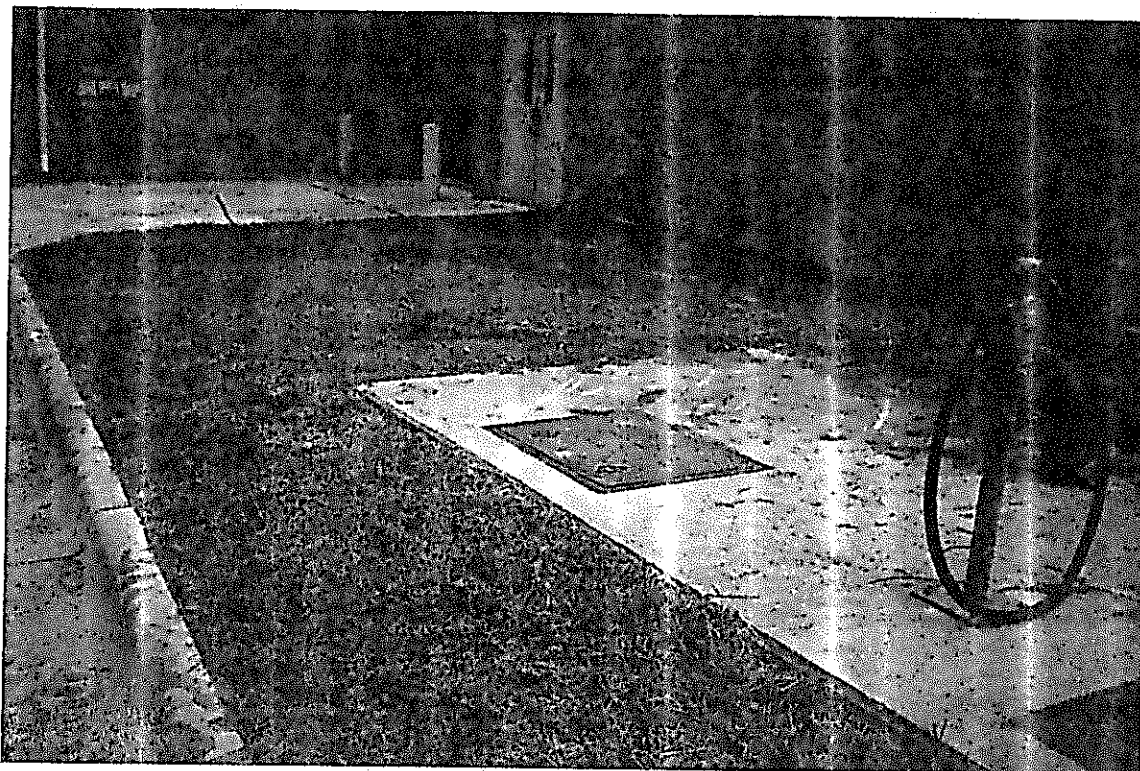


Photo 3. The site after tank removal, backfilling and grading.

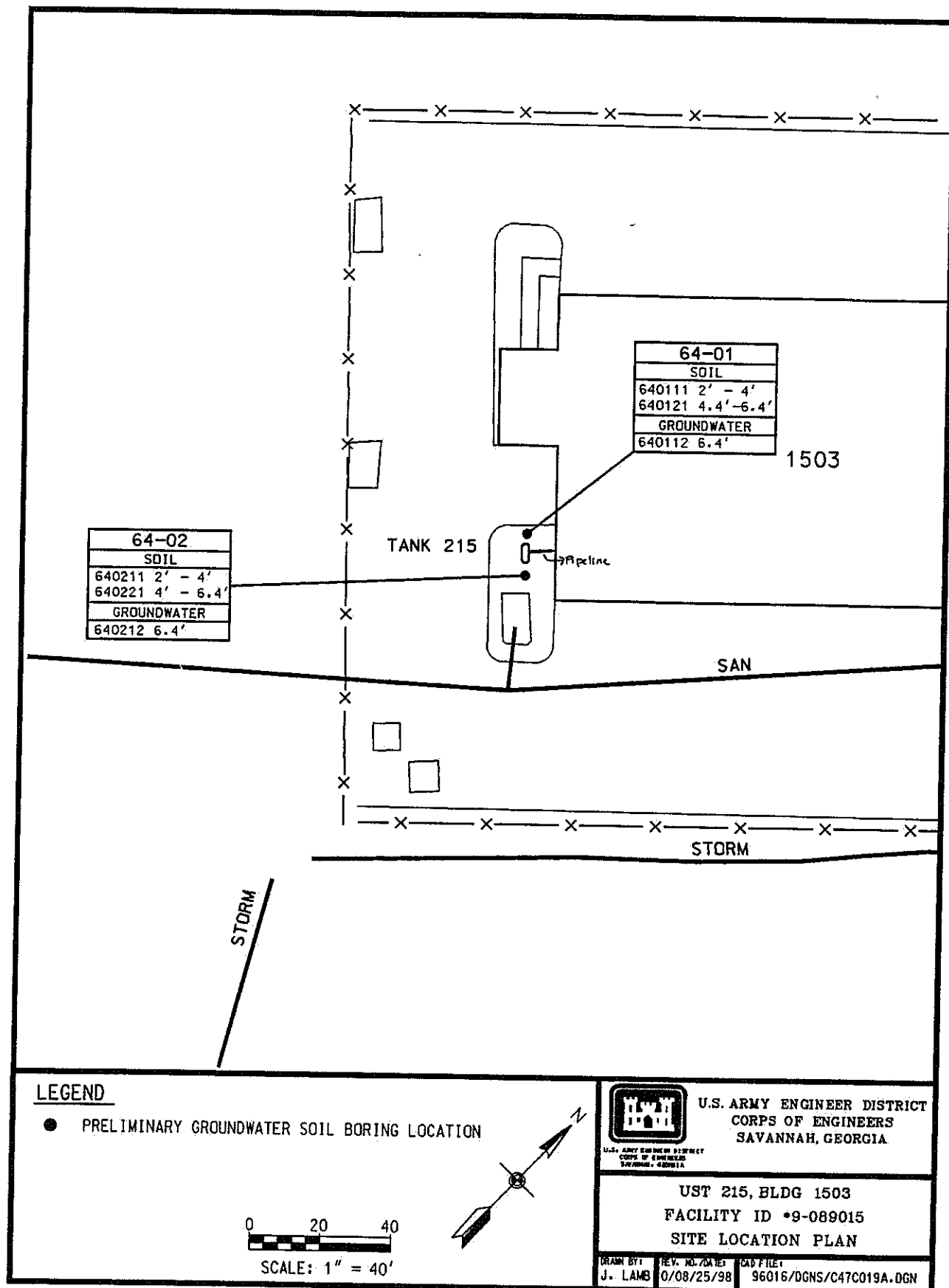
TAB 5

SITE MAPS

TAB 5
SITE MAPS

MAP #1: Provided by SAIC after second site investigation. Scaled map depicts the tank pit area, sewer lines, water lines, sample locations (May 1998 sampling event), and directional arrow.

MAPs #2a & 2b: Note to Scale. Provided by ACE after removal of UST. Map 2a indicates location of soil sample obtained at time of UST closure.



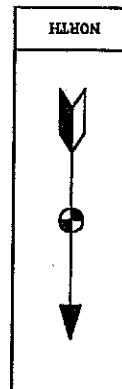
MAP #1

(May 98 Sampling Event)

Instrument: _____ Serial #: _____
Source: _____ Temp: _____
PID Correlation: 50 ppm

[illegible]

ASPHALT



EXCAVATION AREA: 10' X 12' X 8' DEEP

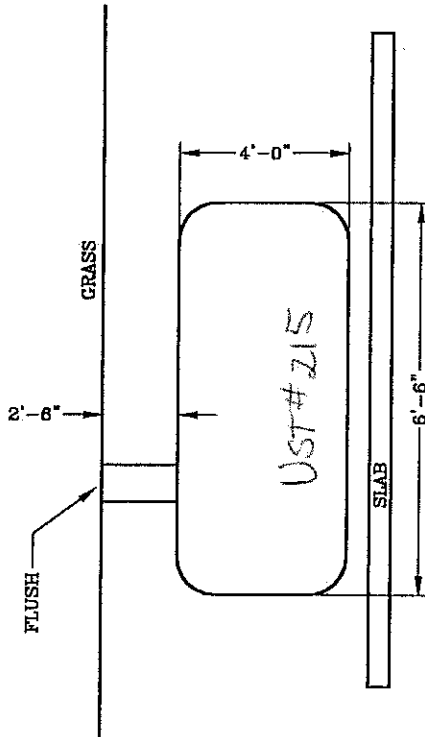
P.O. BOX 1385 LAKE CITY, FLORIDA 32056 (904) 755-1195

DR. N.A.M. CH'D DR. APP.
ENGR. ENGR.'S DEPT.
DATE 11-6-96 SCALE N.T.S.

Facility Id. No. 9-089015

(July 96 Sampling Event)
Tank Bottom

Instrument: _____ Serial #: _____
 Source: _____ Temp: _____
 PID Correlation: 50 ppm

[illegible]

LEGEND/REF. DRWG.'S

CROSS SECTION

**ANDERSON COLUMBIA
ENVIRONMENTAL, INC.**

P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1195

DR. N.A.M. CH'D DR. APP.
ENGR. ENGR.'S DEPT.
DATE 11-6-96 SCALE N.T.S.

JOB #8101 FT. STEWART, GA

LOCATION: BLDG. 1503

TANK 215

Facility Id. No. 9-089015

(July 96 Tank Control)

TAB 6

EPA FORM 7530-1
&
FIELD ASSESSMENT METHODS

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

state use only

Part I: Facility Data

FACILITY ID NUMBER: 9-089015

OWNER'S ID: 197

INITIAL DATE RECEIVED: 05-06-1986

DATE AMENDED LAST: 09-10-1996

NOTIFICATION TYPE: ☐ New ☒ Amended ☐ Closure

OWNERSHIP OF TANK(S): NUMBER OF TANK(S): 2

Name : US ARMY/FT STEWART
Mailing Address: HQS 3RD INF DIV (MECH) , 1557 FRANK COCHRAN DRIVE
City : FT STEWART State : GA Zip Code: 31314-4928
Phone: (912) 767-2010 County: LIBERTY

1. LOCATION OF TANK(S):

Name : FT STEWART/FAC 1503
Street Address: FAC 1503
City : FT STEWART State : GA Zip Code : 31314-5000
County: LIBERTY Latitude: : : Longitude: : :
Phone : () -

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 : US ARMY/FT STEWART *Attn: Thomas C. Fry* Title: *DPW's Chief, ENRD* ~~JOHN SPEAR/ENV ENG~~
Address: ~~HQS 3RD INF DIV (M), AFZP DEV/BLDG 1139~~ ; *1557 Frank Cochran Dr.*
City : FT STEWART State: GA Zip Code: 31314-5000
Phone : (912) 767-1071 *4928*

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

FINANCIAL RESPONSIBILITY:

FACILITY ID NUMBER: 9-089015

- [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 <i>Federal Govt Funding</i> |
| ☒ 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 :

Address:

City:

State:

Mechanism Id Number:

Mechanism Anniversary Date:

Deductible Financial Responsibility, if any: (check one)

NOTE: 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 :

Address:

City:

State:

Mechanism Id Number:

Mechanism Anniversary Date:

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089015	9-089015			
TANK ID	214	215			
Status of Tank					
Currently In Use					
Temp. Out of Use					
Perm. Out of Use					
Date of Installation	01-01-1988	01-01-1988			
Age	10	10			
Est. Total Capacity	550	500			
Material of Construction					
Asphalt or Bare Steel					
Cath. Protected Steel					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.	X	X			
Lined Interior					
Double Walled					
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, explanation					
Date Tank Repaired					
Material					
Bare Steel					
Galvanized Steel	X	X			
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	X	X			
Propane					
Empty					
Other, explanation					

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089015	9-089015			
TANK ID	214	215			
Substance Stored in Tank					
Hazardous Substance					
CERCLA Name					
CAS Number					
Mixture					
Mixture, Specification					
Tanks Out of Use/Chg. Ser.					
	Tank	Piping	Tank	Piping	
Est. Date Last Used	08-96	08-96	08-96	08-96	
Est. Date Closed	08-96	08-96	08-96	08-96	
Removed from Ground	X	X	X	X	
Closed in Ground					
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					
Another Allowed Method					
Method Description					
Release Detection					
	Tank	Piping	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					
Company					
Date					

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part III: Certifications

OATH 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 G. Fry

Owner Name

Chief, Environmental & Natural Resources Division

Title

Thomas G. Fry
Owner's Signature

07/27/99

Date

TAB 6 FIELD ASSESSMENT METHODS

6.1 ACE Field Investigation

During the tank removal operation, one soil sample was collected for analytical testing by Anderson Columbia Environmental, Inc. (ACE) personnel two feet below the former tank. The soil samples (from numerous tank removal sites) were collected into appropriate (i.e., dependent upon 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.

Soil samples for field screening were collected by ACE personnel from each side of the excavation and from the bottom of the excavated tank pit. Soil samples were collected at various intervals and soil vapors were withdrawn for volatile organic compounds (VOCs) with a Heath PORTA-FID II, Model No. 8000 Flame Ionization Detector (FID) fitted with a membrane filter. Calibration was performed prior to field sampling with a 100 ppm methane/air mixture.

FID readings of soil samples were collected by filling a clean glass jar one-half full with soil, capping the jar with clean aluminum foil and allowing conditions to equilibrate for approximately 15 minutes. The tip of the FID was then carefully inserted through the aluminum foil and an air sample from the jar's headspace was analyzed for total VOCs.

6.2 SAIC Field Investigation

Additional soil and groundwater samples were collected and analyzed during a second field investigation which was performed by Science Applications International Corporation (SAIC).

Two soil boreholes were drilled within the former tank pit down to the local water table using a hollow-stem auger rig. Soil samples were collected at 2.5 foot intervals during borehole drilling, with field headspace gas analysis being performed on each sample to determine organic vapor concentration. When organic vapors were detected in a borehole, soil samples collected from the 2.5-foot interval with the highest vapor concentration and the 2.5-foot interval located immediately above or at the water table were analyzed for BTEX, PAH, and TPH. In boreholes where no organic vapors were detected, no soil samples for chemical analysis were collected.

Upon reaching the water table, one groundwater sample was collected from each borehole using a Hydropunch II or similar sampling device. Chemical parameters for groundwater samples submitted for laboratory analysis included BTEX and PAH.

TAB 6
PIPING CERTIFICATION

The undersigned certifies that, to the best of my knowledge and those working under my direct supervision, the piping associated with UST #215, formerly located at Building 1503, Fort Stewart, Georgia, was closed in-place by Fort Stewart's contractor, Anderson Columbia Environmental.

The undersigned also certifies that the piping at this facility associated with UST #215, which was used for storage of used oil, was not greater than 25 feet in length. Therefore, in accordance with GUST Rules, pipeline sampling was not required.

Name: Thomas C. Fry

Title: Acting Chief, Environmental and
Natural Resources Division

Signature: Thomas C. Fry

Date: 07/27/99

TAB 7

ANALYTICAL DATA

TAB 7
LABORATORY ANALYTICAL DATA

The analytical results from the one soil sample obtained during UST closure activities and the two additional borings installed at this site in May 1998 are provided for your use and convenience. The analytical results from the Science Applications International Corporation (SAIC, May 1998) investigation is followed by the analytical results from the Anderson Columbia Environmental (ACE) UST removal project (July 1996). All corresponding chain of custody forms and data validation is included in this section.

NOTE: Map #1, included in Tab 5, indicates sampling locations from the SAIC investigation. Map #2a, also included in Tab 5, indicates the sampling location from the tank removal.

UST #215, BUILDING 1503, FACILITY ID. NO. 9-089015
SUMMARY OF SOIL ANALYTICAL DATA OBTAINED DURING MAY 1998 SAMPLING

Station: Sample ID: Sample Interval: Media: Sample Type: Collection Date: Units:	Screening Levels			64-01	64-01	64-02	64-02
	GA UST			640111	640121	640211	640221
	Corrective			2'-4'	4.4'-6.4'	2'-4'	4'-6.4'
	Action	Risk-based	Leaching to	Soil	Soil	Soil	Soil
	Levels	Screening	Groundwater ^c	Grab	Grab	Grab	Grab
	for Soil ^a	Level ^b		5/9/98	5/9/98	5/9/98	5/9/98
	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)	(µg/kg)
2-Chloronaphthalene	N/A ^e	82000000	84000	365 U	354 U	370 U	370 U
Acenaphthene	N/A ^e	120000000	570000	365 U	354 U	370 U	370 U
Acenaphthylene	ND	61000000	4200000	365 U	354 U	370 U	370 U
Anthracene	N/A ^e	610000000	12000000	365 U	354 U	370 U	370 U
Benzene	8	200000	30	2.2 U	2.2 U	1.1 U	2 J
Benzo(a)anthracene	N/A ^e	7800	2000	365 U	354 U	370 U	370 U
Benzo(a)pyrene	N/A ^e	780	8000	365 U	354 U	370 U	370 U
Benzo(b)fluoranthene	N/A ^e	7800	5000	365 U	354 U	370 U	370 U
Benzo(g,h,i)perylene	N/A ^e			365 U	354 U	370 U	370 U
Benzo(k)fluoranthene	N/A ^e	78000	49000	365 U	354 U	370 U	370 U
Chrysene	N/A ^e	780000	160000	365 U	354 U	370 U	370 U
Dibenzo(a,h)anthracene	N/A ^e	780	2000	365 U	354 U	370 U	370 U
Ethylbenzene	10000	200000000	13000	2.2 U	2.2 U	4.4 U	217 J
Fluoranthene	N/A ^e	82000000	4300000	365 U	354 U	370 U	370 U
Fluorene	N/A ^e	82000000	560000	365 U	354 U	370 U	370 U
Indeno(1,2,3-cd)pyrene	N/A ^e	7800	140000	365 U	354 U	370 U	370 U
Naphthalene	N/A ^e	82000000	84000	365 U	354 U	370 U	370 U
Phenanthrene ^f	N/A ^e	61000000	4200000	365 U	354 U	370 U	370 U
Pyrene	N/A ^e	61000000	4200000	365 U	354 U	370 U	370 U
Toluene	6000	210000000	12000	796 J	96 J	163 =	28.7 J
TPH	-	-	-	79 =	10.9 =	53.8 =	80.2 =
Xylenes, Total	700000	1000000000	190000	6.6 U	6.5 U	13.3 U	86.7 =

^a Average of higher groundwater pollution susceptibility area (where public water supply is within 2.0 mi.).

^b Protective of soil exposure during Industrial Land Use.

^c Protective of groundwater ingestion. Used a dilution attenuation factor of 20.

^d Values based on naphthalene as a surrogate chemical.

^e Not applicable. The screening level exceeds the expected soil concentration under free product condition.

^f Values based on pyrene as a surrogate chemical.

10 Bold values indicate results exceeding Georgia UST action levels.

10 Italicized values indicate results exceeding risk-based screening levels.

10 Underlined values indicate results exceeding leaching to groundwater screening levels.

U Indicates that the compound was not detected above the reported sample quantitation limit.

J Indicates that the value for the compound was an estimated value.

UJ Indicates that the sample was not detected above an approximate sample quantitation limit.

R Indicates that the sample results are unusable and the presence or absence of the compound could not be verified.

= Indicates that the compound was detected at the concentration reported.

UST #215, BUILDING 1503, FACILITY ID. NO. 9-089015

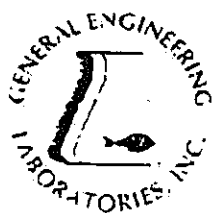
SUMMARY OF GROUNDWATER ANALYTICAL DATA OBTAINED DURING MAY 1998 SAMPLING

Station: Sample ID: Sample Depth: Media: Sample Type: Collection Date: Units:	Screening Levels	64-01 640112 6.4' Water Grab 5/9/98 (ug/L)	64-02 640212 6.4' Water Grab 5/9/98 (ug/L)
	Federal SDWA MCLs (ug/L)		
2-Chloronaphthalene		20.0 U	13.3 U
Acenaphthene		20.0 U	13.3 U
Acenaphthylene		20.0 U	13.3 U
Anthracene		20.0 U	13.3 U
Benzene	5	2.0 U	4.0 U
Benzo(a)anthracene		20.0 U	13.3 U
Benzo(a)pyrene	0.2	20.0 U	13.3 U
Benzo(b)fluoranthene		20.0 U	13.3 U
Benzo(g,h,i)perylene		20.0 U	13.3 U
Benzo(k)fluoranthene		20.0 U	13.3 U
Chrysene		20.0 U	13.3 U
Dibenzo(a,h)anthracene		20.0 U	13.3 U
Ethylbenzene	700	2.0 U	4.0 U
Fluoranthene		20.0 U	13.3 U
Fluorene		20.0 U	13.3 U
Indeno(1,2,3-cd)pyrene		20.0 U	13.3 U
Naphthalene		20.0 U	13.3 U
Phenanthrene [†]		20.0 U	13.3 U
Pyrene		20.0 U	13.3 U
Toluene	1000	2.0 U	4.0 U
Xylenes, Total	10000	6.0 U	12.0 U

10 Bold values indicate results exceeding MCL

U Indicates that the compound was not detected above the reported sample quantitation limit.

= Indicates that the compound was detected at the concentration reported.



GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

STATEMENT ON LABORATORY DETECTION LIMITS

General Engineering has been performing chemical analysis on soil and groundwater samples for SAIC managed Ft. Stewart, GA, UST CAP Part-A and CAP Part-B Investigations for the past two years.

In the course of these studies GEL has employed appropriate EPA SW-846 protocols according to Methods 8020 for BTEX compounds, 8270 for PAH compounds, and modified 8015 for TPH-GRO and TPH-DRO components.

In performance of these methods the laboratory has consistently maintained analyte reporting levels of:

<u>Analyte</u>	<u>Soil</u> <u>ug/Kg</u>	<u>Water</u> <u>ug/L</u>
Benzene	5	5
Toluene	5	5
Ethylbenzene	5	5
Xylenes	10	10
PAHs	330	10
	<u>mg/Kg</u>	<u>mg/L</u>
TPH-GRO	5	0.1
TPH-DRO	4	0.1
TPH	10	0.2

Analytical method detection levels (MDLs) have been maintained at the following levels:

<u>Analyte</u>	<u>Soil</u> <u>ug/Kg</u>	<u>Water</u> <u>ug/L</u>
Benzene	2	2
Toluene	2	2
Ethylbenzene	2	2
Xylenes	4	4
PAHs	70	2
	<u>mg/Kg</u>	<u>mg/L</u>
TPH-GRO	2	0.05
TPH-DRO	2	0.05
TPH	4	0.1

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414

(803) 556-8171 • Fax (803) 766-1178

When an analyte was observed between the laboratory MDL and the reporting level, an estimated ("J") value was reported. If an analyte is not determined above the MDL, the laboratory will report the reporting level as a "U" (undetected). The above reporting levels and MDLs are applicable for all values reported for these analyses. For example, when a Benzene concentration of 500 ug/Kg is reported the associated reporting level is 5 ug/Kg and the associated MDL is 2 ug/Kg.

Soil data has been reported on a dry weight basis. This introduces a correction factor based on the moisture content found in each sample for both positive values and for the reporting level and MDL. For example, when a soil sample's reporting level is corrected for its percent moisture (say 10% moisture), the dry weight reporting level for benzene becomes 5.5 ug/gm and the MDL becomes 2.2 ug/gm. Therefore soil reporting levels will vary based on the moisture.

These reporting protocols follow current EPA direction.

GEL attempted in every sample analysis to achieve the requirements of GUST for soil and groundwater analyses. However, in some cases, it was not possible to achieve standard MDLs and reporting levels for each individual analyte. When a single analyte is found in the sample at high concentrations (example: xylenes at 5,000 ug/Kg), the sample must be diluted to properly quantify the level of that analyte. Dilution of the sample for one analyte will dilute the sample for all other analytes, raising the reporting levels for those analytes by the multiple of the dilution factor (example: a dilution of 1:10 will raise reporting levels of benzene to 50 ug/Kg). At other times concentrations of undetermined contaminants will require samples to be diluted, causing reporting levels and MDLs to become elevated.

The data produced for these Ft. Stewart UST Investigations was determined using approved EPA methodology by qualified analytical chemists. It has been reviewed by the laboratory and is considered technically sound and defensible.

Name: Robert L. Pullano

Title: Quality Systems Manager

Signature: Robert L. Pullano

Date: 1 April 98

GENERAL ENGINEERING LABORATORIES
PO Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407
(803) 556-8171 • Fax (803) 766-1173



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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640111

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4006S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805295-06

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 2I4029

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: not dec. 9

Date Analyzed: 05/15/98

GC Column: J&W DB-624 (PID) ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (ml)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

71-43-2-----Benzene			
108-88-3-----Toluene			
100-41-4-----Ethylbenzene			
1330-20-7-----Xylenes (total)			

796 2.2 U
535 2.2 U
2.2 U
6.6 U

UJ K01
J K01
UJ K01
UJ K01

DATA VALIDATION
COPY

Use

FORM I VOA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640111

Lab Name: GENERAL ENGINEERING LABOR Contract: NA
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4006S
 Matrix: (soil/water) SOIL Lab Sample ID: 9805295-06
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: 2T530
 Level: (low/med) LOW Date Received: 05/11/98
 % Moisture: 9 decanted: (Y/N) N Date Extracted: 05/14/98
 Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/16/98
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: 7.0

DATA VALIDATION
COPY

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		
91-20-3	-----naphthalene	365	U
91-58-7	-----2-chloronaphthalene	365	U
209-96-8	-----acenaphthylene	365	U
83-32-9	-----acenaphthene	365	U
86-73-7	-----fluorene	365	U
85-01-8	-----phenanthrene	365	U
120-12-7	-----anthracene	365	U
206-44-0	-----fluoranthene	365	U
129-00-0	-----pyrene	365	U
56-55-3	-----benzo (a) anthracene	365	U
218-01-9	-----chrysene	365	U
205-99-2	-----benzo (b) fluoranthene	365	U
207-08-9	-----benzo (k) fluoranthene	365	U
50-32-8	-----benzo (a) pyrene	365	U
193-39-5	-----indeno (1,2,3-cd) pyrene	365	U
53-70-3	-----dibenz (a,h) anthracene	365	U
191-24-2	-----benzo (g,h,i) perylene	365	U

FORM I SV-1

OLM03.0

DATA VALIDATION COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: May 20, 1998

Page 1 of 1

Sample ID : 640111
Lab ID : 9805295-06
Matrix : Soil
Date Collected : 05/09/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons		79.0 5 F01, F08, I00	2.18	11.0	mg/kg	1.0	JLP	05/13/98	1100	122011	1

M = Method	Method-Description
M 1	EPA 418.1 Modified

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Valerie Davis at (803) 769-7391.

Reviewed By



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640121

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4006S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805295-10

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 2I4033

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: not dec. 8

Date Analyzed: 05/15/98

GC Column: J&W DB-624 (PID) ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (ml)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

71-43-2-----Benzene	2.2	U	UJ KØI
108-88-3-----Toluene	96.0	U	J KØI
100-41-4-----Ethylbenzene	2.2	U	UJ KØI
1330-20-7-----Xylenes (total)	6.5	U	UJ KØI

DATA VALIDATION
COPY

USE

FORM I VOA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640121

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4006S

Matrix: (soil/water) SOIL Lab Sample ID: 9805295-10

Sample wt/vol: 30.7 (g/mL) G Lab File ID: 2T534

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: 8 decanted: (Y/N) N Date Extracted: 05/14/98

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/16/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

DATA VALIDATION

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

COPY

Q

91-20-3-----	naphthalene	354	U
91-58-7-----	2-chloronaphthalene	354	U
209-96-8-----	acenaphthylene	354	U
83-32-9-----	acenaphthene	354	U
86-73-7-----	fluorene	354	U
85-01-8-----	phenanthrene	354	U
120-12-7-----	anthracene	354	U
206-44-0-----	fluoranthene	354	U
129-00-0-----	pyrene	354	U
56-55-3-----	benzo (a) anthracene	354	U
218-01-9-----	chrysene	354	U
205-99-2-----	benzo (b) fluoranthene	354	U
207-08-9-----	benzo (k) fluoranthene	354	U
50-32-8-----	benzo (a) pyrene	354	U
193-39-5-----	indeno (1,2,3-cd) pyrene	354	U
53-70-3-----	dibenz (a,h) anthracene	354	U
191-24-2-----	benzo (g,h,i) perylene	354	U

FORM I SV-1

OLM03.0

DATA VALIDATION COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: May 20, 1998

Page 1 of 1

Sample ID : 640121
Lab ID : 9805295-10
Matrix : Soil
Date Collected : 05/09/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry		10.9									
Total Rec. Petro. Hydrocarbons	J	4.93 U F01, F06	2.16		mg/kg	1.0	JLP	05/13/98	1100	122011	1

M = Method	Method-Description
M 1	EPA 418.1 Modified

Notes:

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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

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This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Valerie Davis at (803) 769-7391.

Reviewed By _____



DATA VALIDATION COPY

SDG No.: FS4006S

Method Type: Total Metals

Sample ID: 9805295-10

Client ID: 640121

Contract: SAIC00598

Lab Code: GEL

Case No.:

SAS No.:

Matrix: SOIL

Date Received: 5/11/98

Level: LOW

% Solids: 92.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7439-92-1	Lead	1.9	mg/kg	5	942	P	0.10	TJA61 Trace ICPAES	980514a-1

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640112

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4015W

Matrix: (soil/water) GROUNDH2O

Lab Sample ID: 9805309-08

Sample wt/vol: 10.00 (g/ml) ML

Lab File ID: 2J3035

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: not dec. _____

Date Analyzed: 05/21/98

GC Column: J&W DB-624 (PID) ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (ml)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

71-43-2-----	Benzene	2.0	U
108-88-3-----	Toluene	2.0	U
100-41-4-----	Ethylbenzene	2.0	U
1330-20-7-----	Xylenes (total)	6.0	U

U
↓

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640112

Lab Name: GENERAL ENGINEERING LABOR Contract: NA
Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4012W
Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9805304-09
Sample wt/vol: 250.0 (g/mL) ML Lab File ID: 1T315
Level: (low/med) LOW Date Received: 05/11/98
% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/13/98
Concentrated Extract Volume: 0.50 (mL) Date Analyzed: 05/13/98
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
91-20-3	-----naphthalene	20.0	U	u ↓
91-58-7	-----2-chloronaphthalene	20.0	U	
208-96-8	-----acenaphthylene	20.0	U	
83-32-9	-----acenaphthene	20.0	U	
86-73-7	-----fluorene	20.0	U	
85-01-8	-----phenanthrene	20.0	U	
120-12-7	-----anthracene	20.0	U	
206-44-0	-----fluoranthene	20.0	U	
129-00-0	-----pyrene	20.0	U	
56-55-3	-----benzo (a) anthracene	20.0	U	
218-01-9	-----chrysene	20.0	U	
205-99-2	-----benzo (b) fluoranthene	20.0	U	
207-08-9	-----benzo (k) fluoranthene	20.0	U	
50-32-8	-----benzo (a) pyrene	20.0	U	
193-39-5	-----indeno (1,2,3-cd) pyrene	20.0	U	
53-70-3	-----dibenz (a,h) anthracene	20.0	U	
191-24-2	-----benzo (g,h,i) perylene	20.0	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640211

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4007S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805298-17

Sample wt/vol: 10.0 (g/mL) G

Lab File ID: 2I6036

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: not dec. 10

Date Analyzed: 05/17/98

GC Column: J&W DB-624 (PID) ID: 0.53 (mm)

Dilution Factor: 2.0

Soil Extract Volume: _____ (ml)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

71-43-2-----Benzene	1.1	U
108-88-3-----Toluene	163	
100-41-4-----Ethylbenzene	4.4	U
1330-20-7-----Xylenes (total)	13.3	U

U
U
U
U

DATA VALIDATION
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640211

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

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

SDG No.: FS4007S

Matrix: (soil/water) SOIL

Lab Sample ID: 9805298-17

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 1U323

Level: (low/med) LOW

Date Received: 05/11/98

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 05/15/98

Concentrated Extract Volume: 1.00 (mL)

Date Analyzed: 05/21/98

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

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pH: 7.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

91-20-3	-----naphthalene	370	U
91-58-7	-----2-chloronaphthalene	370	U
208-96-8	-----acenaphthylene	370	U
83-32-9	-----acenaphthene	370	U
86-73-7	-----fluorene	370	U
85-01-8	-----phenanthrene	370	U
120-12-7	-----anthracene	370	U
206-44-0	-----fluoranthene	370	U
129-00-0	-----pyrene	370	U
56-55-3	-----benzo (a) anthracene	370	U
218-01-9	-----chrysene	370	U
205-99-2	-----benzo (b) fluoranthene	370	U
207-08-9	-----benzo (k) fluoranthene	370	U
50-32-8	-----benzo (a) pyrene	370	U
193-39-5	-----indeno (1,2,3-cd) pyrene	370	U
53-70-3	-----dibenz (a,h) anthracene	370	U
191-24-2	-----benzo (g,h,i) perylene	370	U

FORM I SV-1

OLM03.0

DATA VALIDATION COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: June 01, 1998

Page 1 of 1

Sample ID : 640211
Lab ID : 9805298-17
Matrix : Soil
Date Collected : 05/09/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons		53.8 = F01, F08	2.20	11.1	mg/kg	1.0	JLP	05/26/98	1330	122880	1

M = Method	Method-Description
M 1	EPA 418.1 Modified

Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed
in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Valerie Davis at (803) 769-7391.

Reviewed By _____



9805298-17

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640221

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4005S

Matrix: (soil/water) SOIL Lab Sample ID: 9805294-15

Sample wt/vol: 10.0 (g/mL) G Lab File ID: 2I5025

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: not dec. 10 Date Analyzed: 05/15/98

GC Column: J&W DB-624(PID) ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (ml) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	UG/KG	
71-43-2-----	Benzene	2.0	J	J GΦ1
108-88-3-----	Toluene	28.7	P	J GΦ1, MΦ8
100-41-4-----	Ethylbenzene	217		J GΦ1
1330-20-7-----	Xylenes (total)	86.7-807	2 R	=

DATA VALIDATION
COPY

use

J GΦ1

FORM I VOA

13
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640221

Lab Name: GENERAL ENGINEERING LABOR Contract: NA
 Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4005S
 Matrix: (soil/water) SOIL Lab Sample ID: 9805294-15
 Sample wt/vol: 30.0 (g/mL) G Lab File ID: 2T334
 Level: (low/med) LOW Date Received: 05/11/98
 % Moisture: 10 decanted: (Y/N) N Date Extracted: 05/12/98
 Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/14/98
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N

DATA VALIDATION

CAS NO.

COMPOUND

COPY

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

91-20-3-----	naphthalene	370	U
91-58-7-----	2-chloronaphthalene	370	U
209-96-8-----	acenaphthylene	370	U
83-32-9-----	acenaphthene	370	U
86-73-7-----	fluorene	370	U
85-01-8-----	phenanthrene	370	U
120-12-7-----	anthracene	370	U
206-44-0-----	fluoranthene	370	U
129-00-0-----	pyrene	370	U
56-55-3-----	benzo (a) anthracene	370	U
218-01-9-----	chrysene	370	U
205-99-2-----	benzo (b) fluoranthene	370	U
207-08-9-----	benzo (k) fluoranthene	370	U
50-32-8-----	benzo (a) pyrene	370	U
193-39-5-----	indeno (1,2,3-cd) pyrene	370	U
53-70-3-----	dibenz (a,h) anthracene	370	U
191-24-2-----	benzo (g,h,i) perylene	370	U

U
↓

DATA VALIDATION COPY

Client: Science Applications International Corp.
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831
Contact: Ms. Lorene Rollins
Project Description: CAP-Part A for UST Sites (Task Order No. 8)

cc: SAIC00598

Report Date: June 01, 1998

Page 1 of 1

Sample ID : 640221
Lab ID : 9805294-15
Matrix : Soil
Date Collected : 05/09/98
Date Received : 05/11/98
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
General Chemistry											
Total Rec. Petro. Hydrocarbons		80.2 = F01, F08	2.20	11.1	mg/kg	1.0	JLP	05/13/98	1100	122011	1

M = Method	Method-Description
M 1	EPA 418.1 Modified

Notes:

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J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

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in accordance with General Engineering Laboratories
standard operating procedures. Please direct
any questions to your Project Manager, Valerie Davis at (803) 769-7391.

Reviewed By



9805294-15

DATA VALIDATION COPY

SDG No.: FS4005S

Method Type: Total Metals

Sample ID: 9805294-15

Client ID: 640221

Contract: SAIC00598

Lab Code: GEL

Case No.:

SAS No.:

Matrix: SOIL

Date Received: 5/11/98

Level: LOW

% Solids: 90.00

CAS No.	Analyte	Concentration	Units	C	Qual	M	DL	Instrument ID	Analytical Run
7439-92-1	Lead	27.5	mg/kg	=	SP4	P	0.10	TJA61 Trace ICPAES	980517-1

Color Before:

Clarity Before: SRK

Texture:

Color After:

Clarity After: 6/24/98

Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640212

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4015W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9805309-07

Sample wt/vol: 10.00 (g/ml) ML Lab File ID: 2J3015

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: not dec. Date Analyzed: 05/20/98

GC Column: J&W DB-624 (PID) ID: 0.53 (mm) Dilution Factor: 2.0

Soil Extract Volume: (ml) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
71-43-2-----	Benzene	4.0	U	U ↓
108-88-3-----	Toluene	4.0	U	
100-41-4-----	Ethylbenzene	4.0	U	
1330-20-7-----	Xylenes (total)	12.0	U	

DATA VALIDATION
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

640212

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: FS4010W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9805302-20

Sample wt/vol: 750.0 (g/mL) ML Lab File ID: 2T511

Level: (low/med) LOW Date Received: 05/11/98

% Moisture: _____ decanted: (Y/N) _____ Date Extracted: 05/12/98

Concentrated Extract Volume: 1.00 (mL) Date Analyzed: 05/15/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

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CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

91-20-3-----	naphthalene	13.3	U
91-58-7-----	2-chloronaphthalene	13.3	U
209-96-8-----	acenaphthylene	13.3	U
83-32-9-----	acenaphthene	13.3	U
86-73-7-----	fluorene	13.3	U
85-01-8-----	phenanthrene	13.3	U
120-12-7-----	anthracene	13.3	U
206-44-0-----	fluoranthene	13.3	U
129-00-0-----	pyrene	13.3	U
56-55-3-----	benzo (a) anthracene	13.3	U
218-01-9-----	chrysene	13.3	U
205-99-2-----	benzo (b) fluoranthene	13.3	U
207-08-9-----	benzo (k) fluoranthene	13.3	U
50-32-8-----	benzo (a) pyrene	13.3	U
193-39-5-----	indeno (1,2,3-cd) pyrene	13.3	U
53-70-3-----	dibenz (a,h) anthracene	13.3	U
191-24-2-----	benzo (g,h,i) perylene	13.3	U

u
↓
V



800 Oak Ridge Thompson, Oak Ridge, TN 37831 (623) 401-4000

P.08

CHAIN OF CUSTODY RECORD

PROJECT NAME: Fort Stewart New CAP Per A Unit Investigation

PROJECT NUMBER: 01-0331-04-0000-200

PROJECT MANAGER: Penny Stull

Signature (Signature) *Laura Lumley* (Printed Name) Laura Lumley

Sample ID	Date Collected	Time Collected	Matrix
580011	5/10/98	1120	Soil
730111	5/10/98	1110	
730311	5/10/98	1430	
640211	5/9/98	1510	
100521	5/10/98	1035	
570111	5/10/98	1010	
130541	5/10/98	1455	
130531	5/10/98	1450	
730411	5/10/98	1545	
130521	5/10/98	1335	
600111	5/10/98	1520	
580221	5/10/98	1120	
590121	5/10/98	1010	

RELINQUISHED BY: <i>Laura Lumley</i>	Date/Time: 5/11/98	RECEIVED BY: <i>Diane Francis</i>	Date/Time: 5/11/98
COMPANY NAME: <i>SATC</i>	1130	COMPANY NAME: <i>GEL</i>	1600
RELINQUISHED BY: <i>P. Stull</i>	Date/Time: 5/11/98	RELINQUISHED BY:	Date/Time:
COMPANY NAME: <i>GEL</i>	1130	COMPANY NAME:	Date/Time:
RELINQUISHED BY: <i>P. Stull</i>	Date/Time: 5/11/98	RECEIVED BY:	Date/Time:
COMPANY NAME: <i>GEL</i>	1600	COMPANY NAME:	Date/Time:

REQUESTED PARAMETERS										LABORATORY NAME: General Engineering Laboratory	
TOTAL NUMBER OF CONTAINERS: <i># 234</i>										LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29417	
Cooler ID: <i># 234</i>										PHONE NO: (803) 956-8171	
Cooler Temperature: <i>40C</i>										OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS	
FEDEX NUMBER:										9805298-14	
										-15	
										-16	
										-17	
										-18	
										-19	
										-20	
										9805300-01	
										-02	
										-03	
										-04	
										-05	
										-06	

COC NO.: GAB016

1012

GENERAL ENGINEERIN

8037661178

08-25-1998 16:09



SAE As Employee-Owned Company
Serving Automotive Industry Worldwide

800 One Major Turnpike, Oak Ridge, TN 37827 (423) 481-4800

P. 04

CHAIN OF CUSTODY RECORD

PROJECT NAME: Fort Stewart New CAP Part A UST Investigation

PROJECT NUMBER: 01-0331-04-0305-200

PROJECT MANAGER: Penny Stoll

Sample ID
Date Collected
Time Collected
Mileage
Sample (Signature)
Laura Lumley

Sample ID	Date Collected	Time Collected	Mileage
7600811	5/9/98	1855	201
750211	5/8/98	1900	
750411	5/8/98	1650	
770211	5/8/98	1725	
770411	5/8/98	1555	
750201	5/8/98	1905	
770421	5/8/98	1615	
770221	5/8/98	1735	
690111	5/9/98	1540	
640221	5/9/98	1500	
730521	5/9/98	915	
730531	5/9/98	935	
690411	5/10/98	910	

RECEIVED BY:	Date/Time	RECEIVED BY:	Date/Time
SAE	5/11/98	Dione Francis	5/11/98
COMPANY NAME:	Date/Time	COMPANY NAME:	Date/Time
SAE	1130	GEL	1600
RECEIVED BY:	Date/Time	RECEIVED BY:	Date/Time
Blackthorn	5-16-98		
COMPANY NAME:	Date/Time	COMPANY NAME:	Date/Time
GEL	1130		
RECEIVED BY:	Date/Time	RECEIVED BY:	Date/Time
Blackthorn	5/11/98		
COMPANY NAME:	Date/Time	COMPANY NAME:	Date/Time
GEL	1600		

REQUESTED PARAMETERS										LABORATORY NAME: General Engineering Laboratory	
TOTAL NUMBER OF CONTAINERS:										LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29417	
Cooler ID: #131										PHONE NO: (803) 558-8171	
Cooler Temperature: 40C										OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS	
FEDEX NUMBER:										9805294-06	
2										-07	
2										-08	
2										-09	
2										-10	
2										-11	
2										-12	
2										-13	
2										-14	
2										-15	
2										-16	
2										-17	
2										-18	

COC NO.: GAB014

102

TAB 7 - Laboratory Analytical Data

Delivery Order #101

Fort Stewart, Georgia

Tank Number 215

Building Number 1503

<i>Method</i>	9073	418.1	8020	8270B
Sample ID	TRPH	TPH	BTEX	Semi-Volatile Organics
<i>unit</i>	ppm	ppm	ppb	ppb
8101-TK215-S1		1880	bdl	1110
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and this tank is approximately 2500 feet from a withdrawal point. Comparisons should be made to Table A for contaminants >500 feet from a withdrawal point.

Complete Data Package Follows

Petroleum Constituents and Soil Threshold Levels^a

At UST corrective action sites where withdrawal points for public and non-public water supplies exist within distances defined in GUST Rule 391-3-15-.09(3):

CONSTITUENT	AVERAGE OR HIGHER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^b (Where public water supplies exist within 2.0 miles and/or non-public supplies exist within 0.5 miles)		LOWER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^c (Where public water supplies exist within 1.0 mile and/or non-public supplies exist within 0.25 mile)	
	≤500 feet to withdrawal point	>500 feet to withdrawal point	≤500 feet to withdrawal point	>500 feet to withdrawal point
VOLATILE ORGANIC COMPOUNDS				
Benzene ^d	0.005 mg/kg ^d	0.008 mg/kg	0.005 mg/kg ^d	0.71 mg/kg
Toluene	0.400 mg/kg	6.00 mg/kg	0.400 mg/kg	500.00 mg/kg
Ethylbenzene	0.370 mg/kg	10.00 mg/kg	0.500 mg/kg	140.00 mg/kg
Xylenes (total)	20.00 mg/kg	700.00 mg/kg	27.00 mg/kg	700.00 mg/kg
POLYNUCLEAR AROMATIC HYDROCARBONS				
Acenaphthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Anthracene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benz(a)anthracene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benzo(a)pyrene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(b)fluoranthene	0.820 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Benzo(g,h,i)perylene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benzo(k)fluoranthene	1.60 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Chrysene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Dibenz(a,h)anthracene	1.50 mg/kg ^{d,f}	N/A ^e	N/A ^e	N/A ^e
Fluoranthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Fluorene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Indeno(1,2,3-c,d)pyrene	0.660 mg/kg ^d	N/A ^e	0.660 mg/kg ^d	N/A ^e
Naphthalene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Phenanthrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Pyrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e

^a Based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.

^b Based on an assumed distance of 0.5 feet between contaminated soils and the water table.

^c Based on an assumed distance of 5.0 feet between contaminated soils and the water table.

^d Estimated Quantitation Limit. The health-based threshold level is less than the laboratory method limit of detection.

^e Not applicable. The health-based threshold level exceeds the expected soil concentration under free product condition.

^f In order to protect surface waters, the soil threshold level in Table B may supersede that found in Table A.

^g In the presence of other petroleum contaminants in concentrations exceeding 1.0 mg/kg, the Estimated Quantitation Limit, and hence the soil threshold level, may be substantially greater, as approved by EPD.

Table B

Petroleum Constituents and Soil Threshold^a Levels

Other UST corrective action sites where withdrawal points for public and non-public water supplies do not exist within distances defined in GUST Rule 391-3-15-.09(3):

CONSTITUENT	AVERAGE OR HIGHER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^b		LOWER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA ^c	
	≤500 feet to sur- face water body	>500 feet to sur- face water body	≤500 feet to sur- face water body	>500 feet to sur- face water body
VOLATILE ORGANIC COMPOUNDS				
Benzene ^d	0.017 mg/kg	0.120 mg/kg	0.020 mg/kg	11.30 mg/kg
Toluene	115.00 mg/kg	500.00 mg/kg	135.00 mg/kg	500.00 mg/kg
Ethylbenzene	18.00 mg/kg	140.00 mg/kg	28.00 mg/kg	140.00 mg/kg
Xylenes (total)	700.00 mg/kg	700.00 mg/kg	700.00 mg/kg	700.00 mg/kg
POLYNUCLEAR AROMATIC HYDROCARBONS				
Acenaphthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Anthracene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benz(a)anthracene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(a)pyrene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(b)fluoranthene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Benzo(g,h,i)perylene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Benzo(k)fluoranthene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Chrysene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Dibenz(a,h)anthracene	0.660 mg/kg ^d	N/A ^e	N/A ^e	N/A ^e
Fluoranthene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Fluorene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Indeno(1,2,3-c,d)pyrene	0.660 mg/kg ^d	N/A ^e	0.660 mg/kg ^d	N/A ^e
Naphthalene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Phenanthrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e
Pyrene	N/A ^e	N/A ^e	N/A ^e	N/A ^e

^a based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.

^b based on an assumed distance of 0.5 feet between contaminated soils and the water table.

^c based on an assumed distance of 5.0 feet between contaminated soils and the water table.

^d Estimated Quantitation Limit. The health-based threshold level is less than the laboratory method limit of detection.

^e Not applicable. The health-based threshold level exceeds the expected soil concentration under free product condition.

^f In the presence of other petroleum contaminants in concentrations exceeding 1.0 mg/kg, the Estimated Quantitation Limit, and hence the soil threshold level, may be substantially greater, as approved by EPD.

BW

TRANSMITTAL OF SAD LABORATORY REPORT(S)

TO: Commander, Savannah District
US Army Corps of Engineers
ATTN: CESAS-PM-H
Mr. Brent Rose
P.O. Box 889
Savannah, GA 31402-0889

FROM: Director (CESAD-ET-EL)
SAD Laboratory
USACE
611 South Cobb Drive
Marietta, GA 30060-3112

PROJECT: Ft. Stewart

REQN NO: PMS-96-109
W.O. NO: 7996

SUBJECT: Analytical Testing Results

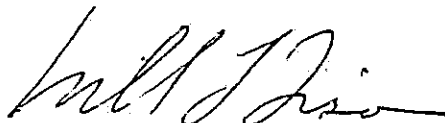
1. Enclosed is our report of analytical test results and chain of custody forms for samples collected on 31 July and 1 August 1996 from Ft. Stewart.
2. If you have any questions, please call Mr. Blaise Willis at 770-919-5295 me at 770-919-3990.

SUBMITTED BY:

SIGNATURE

DATE:

LIAM L. TISON, P. E.
Director, SAD Laboratory



20 Aug 1996

South Atlantic Division Laboratory
U. S. Army Corps of Engineers
611 South Cobb Drive
Marietta, Georgia 30060-3112

District - SAVANNAH

Received - 96/08/02

Date Reported - 96/08/16 10:44:50

FT. STEWART ARMY AF

Requisition - PMS-96-109

Work Order - 7996 Job Number - 4050

Lab # Field ID

29678 8101-TK215-S1

Date Sampled

96/07/31

Time Sampled

15:30

Test Performed

Result

Units

Tested By

Test Date

TOTAL SOLIDS, % OF WET
AROMATIC VOLATILE ORGANICS
SEMIVOLATILE ORGANICS GC/MS
TRPH

90.10

%

SPA

96/08/05

*

SPA

96/08/06

*

SPA

96/08/10

1880.0

MG/KG

SPA

96/08/05

NOTE: See Attached

Sampled by District Personnel

Checked by: JWS

Signed by:

Blaise Willis

Blaise Willis
Chemist

Page 1 of 4

SOUTH ATLANTIC DIVISION LABORATORY
SAMPLE RECEIVING AND COOLER RECEIPT DATA SHEET
CHEMICAL SECTION - Sample Log-In

DATE:

8/2/96

Number of coolers 1

Returned cooler(s) to:

Alaska Clemba

PROJECT:

FT. Stewart

W.O.#

JOB#

4050

Coolers(s) opened by (print name)

Paul G. McDonald

(sign)

[Signature]

1. Did cooler come with shipping slip?

If yes, enter Tracking Number here

1020383221

☒ yes ☐ no

2. Were custody seals on out side of cooler?

How many? +

Date on seal(s) 8/1/96

Name on seal(s) —

☒ yes ☐ no

3. Were custody seals unbroken upon receipt?

☒ yes ☐ no

4. Did you screen sample(s) for "Radioactivity"?

☒ yes ☐ no

5. Were custody papers filled out properly? (ink, signed, etc..)

☒ yes ☐ no

6. Temperature of sample(s) upon receipt:

4c

7. Describe cooler packing:

Bubble Bags

8. Did all sample containers arrive unbroken?

☒ yes ☐ no

9. Were the sample containers sealed in separate plastic bags?

☒ yes ☐ no

10. Were labels on containers in good condition and agree with Custody paper?

☒ yes ☐ no

11. Were correct containers used for the test(s) indicated?

☒ yes ☐ no

12. Were correct preservatives added to sample(s)?

☒ yes ☐ no ☐ unk

13. Was a sufficient amount of sample sent for test?

☒ yes ☐ no

14. Were bubbles absent in Volatile sample(s)?

If no, list field ID#

☒ yes ☐ no ☐ N/A

15. Numbers of days from sample date, samples received in Lab

1-2 days

16. Number of Samples:

4

Sample Type: ☒ soil ☐ water ☐ other

SAMPLE ANALYSIS PERFORMED BY:

SPR

TAT

[Signature]

COMMENTS:

17. Did you sign custody papers in the appropriate place?

LAB NUMBER(S):

96078-81

☒ yes ☐ no

SIGNATURE:

[Signature]

**SPECIALIZED ASSAYS, INC.**

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29678 8101-TK215-S1
FT. STEWART

Lab Number: 96-A047529

Sampler: BOBBI THORN

Date Collected: 7/31/96

Date Received: 8/ 3/96

Time Collected: 15:30

Time Received: 8:30

Sample type: Soil

Organics Reference Data

BNA Blank 57480SBB
GC 3 Tune, BNA DF0809B
GC Calibration Check, BNA CC0809B

Percent solids: 90.1

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

Analyte	Result	Flag	DF	Units	Date	Time	Analyst	Method
Acenaphthene	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
Acenaphthylene	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
Anthracene	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
Benzo(a)anthracene	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
Benzo(a)pyrene	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
Benzo(b)fluoranthene	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
Benzo(g,h,i)perylene	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
Benzo(k)fluoranthene	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
4-Bromophenylphenylether	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
Butylbenzylphthalate	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
Carbazole	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
4-Chloro-3-methylphenol	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
4-Chloroaniline	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
bis(2-Chloroethoxy)methane	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
bis(2-Chloroethyl)ether	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
bis(2-Chloroisopropyl)ether	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B
2-Chloronaphthalene	1110	U	1	ug/kg	8/10/96	4:33	M. Goodrich	8270B

**SPECIALIZED ASSAYS, INC.**

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29678 8101-TK215-S1
FT. STEWART

Lab Number: 96-A047529

Sampler: BOBBI THORN

Date Collected: 7/31/96

Date Received: 8/ 3/96

Time Collected: 15:30

Time Received: 8:30

Sample type: Soil

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

lyte	Result	Flag	DF	Units	Date	Time	Analyst	Method
2-Chlorophenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
4-Chlorophenylphenylether	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Chrysene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Dibenzofuran	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Dibenz(a,h)anthracene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
1,2-Dichlorobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
1,3-Dichlorobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
1,4-Dichlorobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
3,3'-Dichlorobenzidine	2220	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4-Dichlorophenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Diethylphthalate	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4-Dimethylphenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Dimethylphthalate	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Di-n-butylphthalate	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
4,6-Dinitro-2-methylphenol	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4-Dinitrophenol	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4-dinitrotoluene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,6-Dinitrotoluene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Di-n-octylphthalate	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Fluoranthene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Fluorene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Hexachlorobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Hexachlorobutadiene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Hexachlorocyclopentadiene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Hexachloroethane	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B

**SPECIALIZED ASSAYS, INC.**

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29678 8101-TK215-S1
FT. STEWART

Lab Number: 96-A047529

Sampler: BOBBI THORN

Date Collected: 7/31/96

Date Received: 8/ 3/96

Time Collected: 15:30

Time Received: 8:30

Sample type: Soil

SEMIVOLATILE ORGANICS and PESTICIDE/PCB's

Conc Type	Result	Flag	DF	Units	Date	Time	Analyst	Method
Indeno(1,2,3-cd)pyrene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Isophorone	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2-Methylnaphthalene	1110		1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2-Methylphenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
m,p-Methylphenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Naphthalene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2-Nitroaniline	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
3-Nitroaniline	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
4-Nitroaniline	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Nitrobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2-Nitrophenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
4-Nitrophenol	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
N-nitrosodi-n-propylamine	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
N-nitrosodiphenylamine	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Pentachlorophenol	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Phenanthrene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Phenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Pyrene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Bis(2-ethylhexyl)phthalate	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
1,2,4-Trichlorobenzene	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4,5-Trichlorophenol	2770	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
2,4,6-Trichlorophenol	1110	U	1	ug/kg	8/10/96	4:33	M.Goodrich	8270B
Extraction, BNA,s	Completed			ug/kg	8/ 5/96	14:44	C.Garenser	3550

**SPECIALIZED ASSAYS, INC.**

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Sample Location: 29678 B101-TK215-S1
FT. STEWART

Lab Number: 96-A047529

Sampler: BOBBI THORN

Date Collected: 7/31/96

Date Received: 8/ 3/96

Time Collected: 15:30

Time Received: 8:30

Sample type: Soil

UNDERGROUND STORAGE TANK RESULTS

Analyte	Result	Units	PQL	Dil Factor	Date	Time	Analyst	Method
Benzene	< 0.111	mg/kg	0.111	1	8/ 6/96	2:32	S. Wani	8020
Toluene	< 0.111	mg/kg	0.111	1	8/ 6/96	2:32	S. Wani	8020
Ethylbenzene	< 0.111	mg/kg	0.111	1	8/ 6/96	2:32	S. Wani	8020
Xylenes, total	< 0.111	mg/kg	0.111	1	8/ 6/96	2:32	S. Wani	8020
Petroleum Hydrocarbons, IR	1880	mg/kg	11.1	1	8/ 5/96	16:00	M.Himelick	418.1 M

Sample Extraction Data

BNA's Extracted 8/ 5/96 Wt extracted: 10.0 gm Extract Volume: 1.0 ml

**** QUALITY CONTROL DATA ******Surrogate Recoveries**

Surrogate	% Recovery	Target Range
GRO Surrogate, soil	72.	50 - 150
JNA Surrogate, Nitrobenzene	70.0	23 - 120
BNA Surr., 2-Fluorobiphenyl	94.0	30 - 115
BNA Surrogate, Terphenyl d14	108.	18 - 140



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ANALYTICAL REPORT

DIRECTOR U.S. ARMY CORPS ENG. 5394
CESAD LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GA 30060-3172

Lab Number: 96-A047529

Sample ID: 29678 8101-TK215-S1

Date Collected: 7/31/96

Project: CALL #124

Time Collected: 15:30

Project Name:

Date Received: 8/ 3/96

Sampler: BOBBI THORN

Time Received: 8:30

State Certification:

Sample Type: Soil

Site I.D.:

== QUALITY CONTROL DATA ==

Surrogate Recoveries

Surrogate	% Recovery	Target Range
BNA Surrogate, Phenol d5	82.0	10 - 115
BNA Surrogate, 2-Fluorophenol	60.0	20 - 121
BNA Surrogate, 2,4,6-Tribromophenol	106.	19 - 122

Due to sample matrix, semivolatile results were elevated.

Report Approved By:

Theodore J. Duello

Report Date: 8/14/96

Theodore J. Duello, Ph.D.
Michael H. Dunn, M.S.
Danny B. Hale, M.S.



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PROJECT QUALITY CONTROL DATA

DIRECTOR U.S. ARMY CORPS ENG. 5394

Report Number: 96-A047533

Sample I.D.: METHOD BLANK

Lab Project: 49229

Project: CALL #124

Date Received: 8/ 3/96

** UST Spike/Duplicate Results **

Compound	%Recovery	Target Range	Precision RPD	Target Range
Benzene QC	110.	70 - 130	3.1	0 - 20
Toluene QC	106.	70 - 130	3.2	0 - 20
Ethyl benzene QC	106.	70 - 130	3.2	0 - 20
Xylene QC	106.	70 - 130	0.0	0 - 20
418.1	108.	75 - 125	0.4	0 - 25.0

** Organics Spike/Duplicate Results **

Compound	%Recovery	Target Range	Precision RPD	Target Range
Phenol	64.	26 - 90	3.0	0 - 35
2-Chlorophenol	52.	25 - 102	4.0	0 - 50
1,4-Dichlorobenzene	58.	28 - 104	2.0	0 - 27
Nitroso-di-n-propylamine	74.	41 - 126	0.0	0 - 38
1,2,4-Trichlorobenzene	74.	38 - 107	1.0	0 - 23
4-Chloro-3-methylphenol	75.	26 - 103	3.0	0 - 33
Acenaphthene	78.	31 - 137	1.0	0 - 19
4-Nitrophenol	98.	11 - 114	3.0	0 - 50
2,4-Dinitrotoluene	78.	28 - 100	1.0	0 - 47
2,4,6-Trichlorophenol	89.	17 - 109	2.0	0 - 47
Pyrene	73.	35 - 142	6.0	0 - 36

* Semi-Volatile Organics Method Blank Results ***

Compound	Result	Flag	Units	Method
Acenaphthene	330.	U	ug/kg	82708
Acenaphthylene	330.	U	ug/kg	82708



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PROJECT QUALITY CONTROL DATA

DIRECTOR U.S. ARMY CORPS ENG. 5394

Report Number: 96-A047533

Sample I.D.: METHOD BLANK

Lab Project: 49229

Project: CALL #124

Date Received: 8/ 3/96

** Semi-Volatile Organics Method Blank Results ***

Compound	Result	Flag	Units	Method
Anthracene	330.	U	ug/kg	8270B
Benzo(a)anthracene	330.	U	ug/kg	8270B
Benzo(a)pyrene	330.	U	ug/kg	8270B
Benzo(b)fluoranthene	330.	U	ug/kg	8270B
Benzo(g,h,i)perylene	330.	U	ug/kg	8270B
Benzo(k)fluoranthene	330.	U	ug/kg	8270B
4-mophenylphenylether	330.	U	ug/kg	8270B
Bu benzylphthalate	330.	U	ug/kg	8270B
Carbazole	330.	U	ug/kg	8270B
4-Chloro-3-methylphenol	330.	U	ug/kg	8270B
4-Chloroaniline	330.	U	ug/kg	8270B
bis(2-Chloroethoxy)methane	330.	U	ug/kg	8270B
bis(2-Chloroethyl)ether	330.	U	ug/kg	8270B
bis(2-Chloroisopropyl)ether	330.	U	ug/kg	8270B
2-Chloronaphthalene	330.	U	ug/kg	8270B
2-Chlorophenol	330.	U	ug/kg	8270B
4-Chlorophenylphenylether	330.	U	ug/kg	8270B
Chrysene	330.	U	ug/kg	8270B
Dibenzofuran	330.	U	ug/kg	8270B
Dibenz(a,h)anthracene	330.	U	ug/kg	8270B
1,2-Dichlorobenzene	330.	U	ug/kg	8270B
1,3-Dichlorobenzene	330.	U	ug/kg	8270B
1,4-Dichlorobenzene	330.	U	ug/kg	8270B
3,3'-Dichlorobenzidine	670.	U	ug/kg	8270B
2,4-Dichlorophenol	330.	U	ug/kg	8270B
Diethylphthalate	330.	U	ug/kg	8270B
2,4-Dimethylphenol	330.	U	ug/kg	8270B
Dimethylphthalate	330.	U	ug/kg	8270B
Di-n-butylphthalate	330.	U	ug/kg	8270B
2,6-Dinitro-2-methylphenol	830.	U	ug/kg	8270B
2,4-Dinitrophenol	830.	U	ug/kg	8270B
2-nitrotoluene	330.	U	ug/kg	8270B
3-nitrotoluene	330.	U	ug/kg	8270B
Di-n-octylphthalate	330.	U	ug/kg	8270B



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PROJECT QUALITY CONTROL DATA

DIRECTOR U.S. ARMY CORPS ENG. 5394

Report Number: 96-A047533

Sample I.D.: METHOD BLANK

Lab Project: 49229

Project: CALL #124

Date Received: 8/3/96

** Semi-Volatile Organics Method Blank Results ***

Compound	Result	Flag	Units	Method
Fluoranthene	330.	U	ug/kg	8270B
Fluorene	330.	U	ug/kg	8270B
Hexachlorobenzene	330.	U	ug/kg	8270B
Hexachlorobutadiene	330.	U	ug/kg	8270B
Hexachlorocyclopentadiene	330.	U	ug/kg	8270B
Hexachloroethane	330.	U	ug/kg	8270B
Indeno(1,2,3-cd)pyrene	330.	U	ug/kg	8270B
Isodurene	330.	U	ug/kg	8270B
2-Methylnaphthalene	330.	U	ug/kg	8270B
2-Methylphenol	330.	U	ug/kg	8270B
m,p-Methylphenol	330.	U	ug/kg	8270B
Naphthalene	330.	U	ug/kg	8270B
2-Nitroaniline	830.	U	ug/kg	8270B
3-Nitroaniline	830.	U	ug/kg	8270B
4-Nitroaniline	830.	U	ug/kg	8270B
Nitrobenzene	330.	U	ug/kg	8270B
2-Nitrophenol	330.	U	ug/kg	8270B
3-Nitrophenol	830.	U	ug/kg	8270B
4-nitrosodi-n-propylamine	330.	U	ug/kg	8270B
4-nitrosodiphenylamine	330.	U	ug/kg	8270B
2,4,6-Trichlorophenol	830.	U	ug/kg	8270B
Benanthrene	330.	U	ug/kg	8270B
Phenol	330.	U	ug/kg	8270B
Strene	330.	U	ug/kg	8270B
Di(2-ethylhexyl)phthalate	330.	U	ug/kg	8270B
1,2,4-Trichlorobenzene	330.	U	ug/kg	8270B
1,4,5-Trichlorophenol	830.	U	ug/kg	8270B
1,4,6-Trichlorophenol	330.	U	ug/kg	8270B

Theodore J. Smith

Data File : C:\HPCHEM\1\DATA\DF0809C.D
Acq On : 10 Aug 96 6:57 am
Sample : tune
Misc :

Vial: 2
Operator: HP - 5
Inst : 5972 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270.M
tle : SW846 METHOD 8270

Scan Number 2837

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.3	2246	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	58.8	2679	PASS
70	69	0	2	0.1	3	PASS
127	198	30	60	43.5	1982	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	4556	PASS
199	198	5	9	6.7	303	PASS
275	198	10	30	25.9	1180	PASS
365	198	1	100	2.9	134	PASS
441	443	0	100	0.3	14	PASS
442	198	40	100	99.9	4551	PASS
443	442	17	23	18.7	853	PASS

DF0809C.D 8270.M

Sat Aug 10 15:43:44 1996

Data File : C:\HPCHEM\1\DATA\CC0809C.D
 Acq On : 10 Aug 96 7:33 am
 Sample : 50 ppm con cal
 Misc :

Vial: 3
 Operator: HP - 5
 Inst : 5972 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8270.M
 File : SW846 METHOD 8270
 Last Update : Tue Aug 06 16:17:22 1996
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	-0.05
2 T	Pyridine	0.202	0.149	26.3	54	0.00
3 T	N-Nitroso-dimethylamine	0.664	0.581	12.4	59	0.00
4 S	2-Fluorophenol	0.871	0.910	-4.4	62	-0.03
5	Aniline	1.190	1.072	9.9	57	-0.05
6	Bis-(2-Chloroethyl)ether	0.909	0.774	14.9	56	-0.05
7 S	Phenol-d5	1.004	0.901	10.3	53	-0.05
8 MC	Phenol	1.048	0.935	10.7	58	-0.05
9 M	2-Chlorophenol	0.789	0.788	0.1	66	-0.05
10	1,3-Dichlorobenzene	0.797	0.800	-0.4	65	-0.05
11 MC	1,4-Dichlorobenzene	0.833	0.824	1.1	61	-0.05
12	1,2-Dichlorobenzene	0.787	0.746	5.2	62	-0.05
13	Benzyl Alcohol	0.673	0.665	1.1	65	-0.07
14	Bis-(2-chloroisopropyl)ethe	0.100	0.094	5.8	61	-0.05
15	2-Methylphenol	0.678	0.630	7.1	61	-0.05
16	Hexachloroethane	0.321	0.308	4.2	62	-0.05
17	N-Nitroso-di-n-propylamine	0.533	0.514	3.5	63	-0.06
18	3,4-Methylphenol	0.843	0.788	6.6	61	-0.06
19 I	Naphthalene-d8	1.000	1.000	0.0	66	-0.05
20 S	Nitrobenzene-d5	0.478	0.488	-2.1	66	-0.06
21	Nitrobenzene	0.411	0.433	-5.3	62	-0.06
22	Isophorone	0.920	0.875	4.9	58	-0.07
23 C	2-Nitrophenol	0.213	0.246	-15.7	67	-0.06
24	2,4-Dimethylphenol	0.372	0.397	-6.7	67	-0.07
25	Bis-(2-chloroethoxy)methane	0.525	0.483	7.8	58	-0.06
26 C	2,4-Dichlorophenol	0.308	0.324	-5.3	63	-0.06
27	Benzoic acid	0.153	0.221	-44.8	145	-0.10
28 M	1,2,4-Trichlorobenzene	0.325	0.333	-2.5	61	-0.05
29	Naphthalene	0.895	0.841	6.1	58	-0.06
30	4-chloroaniline	0.435	0.390	10.3	53	-0.06
31 C	Hexachlorobutadiene	0.175	0.198	-13.6	68	-0.06
32	4-Chloro-3-methylphenol	0.315	0.326	-3.6	65	-0.05
33	2-Methylnaphthalene	0.591	0.534	9.6	54	-0.06
34 I	Acenaphthene-d10	1.000	1.000	0.0	72	-0.05
35 P	Hexachlorocyclopentadiene	0.215	0.107	50.2	34	-0.05
36 C	2,4,6-Trichlorophenol	0.401	0.403	-0.5	65	-0.05
37	2,4,5-Trichlorophenol	0.378	0.392	-3.7	64	-0.06
38 S	2-fluorobiphenyl	1.257	1.073	14.6	62	-0.07
39	2-Chloronaphthalene	1.070	0.985	7.9	60	-0.06
40	2-Nitroaniline	0.453	0.432	4.7	59	-0.06
41	Acenaphthylene	1.521	1.313	13.7	57	-0.06
42	Dimethylphthalate	1.210	1.166	3.6	63	-0.06
43	2,6-Dinitrotoluene	0.324	0.340	-5.0	65	-0.07
44	3-Nitroaniline	0.310	0.247	20.2	53	-0.07

46	P	2,4-dinitrophenol	0.155	0.125	10.2	62	-0.06
47		Dibenzofuran	1.481	1.347	19.3	47	-0.07
48	M	2,4-Dinitrotoluene	0.410	0.420	9.1	60	-0.07
49	MP	4-Nitrophenol	0.246	0.268	-2.4	62	-0.07
50		Fluorene	1.134	1.040	-8.6	67	-0.07
51		4-Chlorophenyl phenylether	0.533	0.478	8.2	63	-0.07
52		Diethylphthalate	1.129	1.099	10.4	59	-0.07
53		4-Nitroaniline	0.365	0.321	2.7	74	-0.07
54		Azobenzene	1.125	1.346	12.1	54	-0.10
					-19.7	71	-0.07
55	I	Phenanthrene-d10	1.000	1.000	0.0	75	-0.07
56		4,6-Dinitro-2-methylphenol	0.110	0.091	17.1	46	-0.08
57	C	N-Nitroso-diphenylamine	0.423	0.362	14.5	60	-0.06
58	S	Tribromophenol	0.140	0.145	-3.6	61	-0.07
59		4-Bromophenyl phenyl ether	0.189	0.177	6.4	64	-0.07
60		Hexachlorobenzene	0.251	0.247	1.8	65	-0.07
61	MC	Pentachlorophenol	0.159	0.179	-12.8	71	-0.07
62		Phenanthrene	0.861	0.800	7.1	61	-0.16
63		Anthracene	0.861	0.815	5.3	62	-0.07
64		Carbazole	0.857	0.752	12.2	60	-0.08
65		Di-n-butyl phthalate	1.219	1.149	5.7	66	-0.07
66	C	Fluoranthene	0.947	0.927	2.2	66	-0.08
67	I	Chrysene-d12	1.000	1.000	0.0	73	-0.07
68		Benzidine	0.374	0.107	71.3	20	-0.09
69	M	Pyrene	1.139	1.134	0.4	64	-0.08
70	S	Terphenyl-d14	0.947	0.882	6.8	66	-0.08
71		Butylbenzylphthalate	0.699	0.685	2.1	66	-0.07
72		3,3'-Dichlorobenzidine	0.362	0.354	2.1	61	-0.08
73		Benzo(a)anthracene	1.087	0.859	20.9	51	0.04
74		Chrysene	0.911	0.825	9.4	63	-0.09
75		Bis-(2-ethylhexyl)phthalate	0.915	0.879	4.0	65	-0.07
76	I	Perylene-d12	1.000	1.000	0.0	64	-0.07
77	C	Di-n-octylphthalate	1.429	1.544	-8.1	65	-0.09
78		Benzo(b)fluoranthene	1.122	1.241	-10.6	81	-0.10
79		Benzo(k)fluoranthene	1.122	1.106	1.5	72	-0.03
80	C	Benzo(a)pyrene	0.948	0.970	-2.3	59	-0.09
81		Indeno(1,2,3-cd)pyrene	1.035	0.829	19.9	46	-0.10
82		Dibenz(a,h)anthracene	0.936	0.870	7.0	52	-0.10
83		Benzo(g,h,i)perylene	0.920	0.829	9.9	90	-0.10

(#) = Out of Range
0500805 D* 8270.M

SPCC's out = 0 CCC's out = 0
Sat Aug 10 15:42:32 1996

SADD Labs

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

1 emp 4/10

Page 1 of 1
SADD 4052

Project No.

8101

Project Name

Ft Stewart DO-0101

Samplers (Signature)

1

Sample Number

Date

Time

Grab

Comp.

Sample Location

No. of Containers

Preservative

8020
8020
4/10/1

Remarks:

8101-TK215-S1

7/31/96

1530

✓

✓

Soil

3

No

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

8101-TK207A-S1

8-1-96

0800

✓

✓

Soil

3

No

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

8101-TK207A-S2

8-1-96

0815

✓

✓

Soil

3

No

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

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✓

✓

✓

✓

8101-TK214-S1

8-1-96

1030

✓

✓

Soil

3

No

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

TK-214-S1

Relinquished by:

Date / Time

Received by:

Relinquished by:

Date / Time

Received by:

Relinquished by:

Date / Time

Received by:

Relinquished by:

Date / Time

Received by:

Relinquished by:

Date / Time

Received by:

Relinquished by:

Date / Time

Received by:

Remarks:

(FER 1110-1-26a)

Expenses

NATURAL

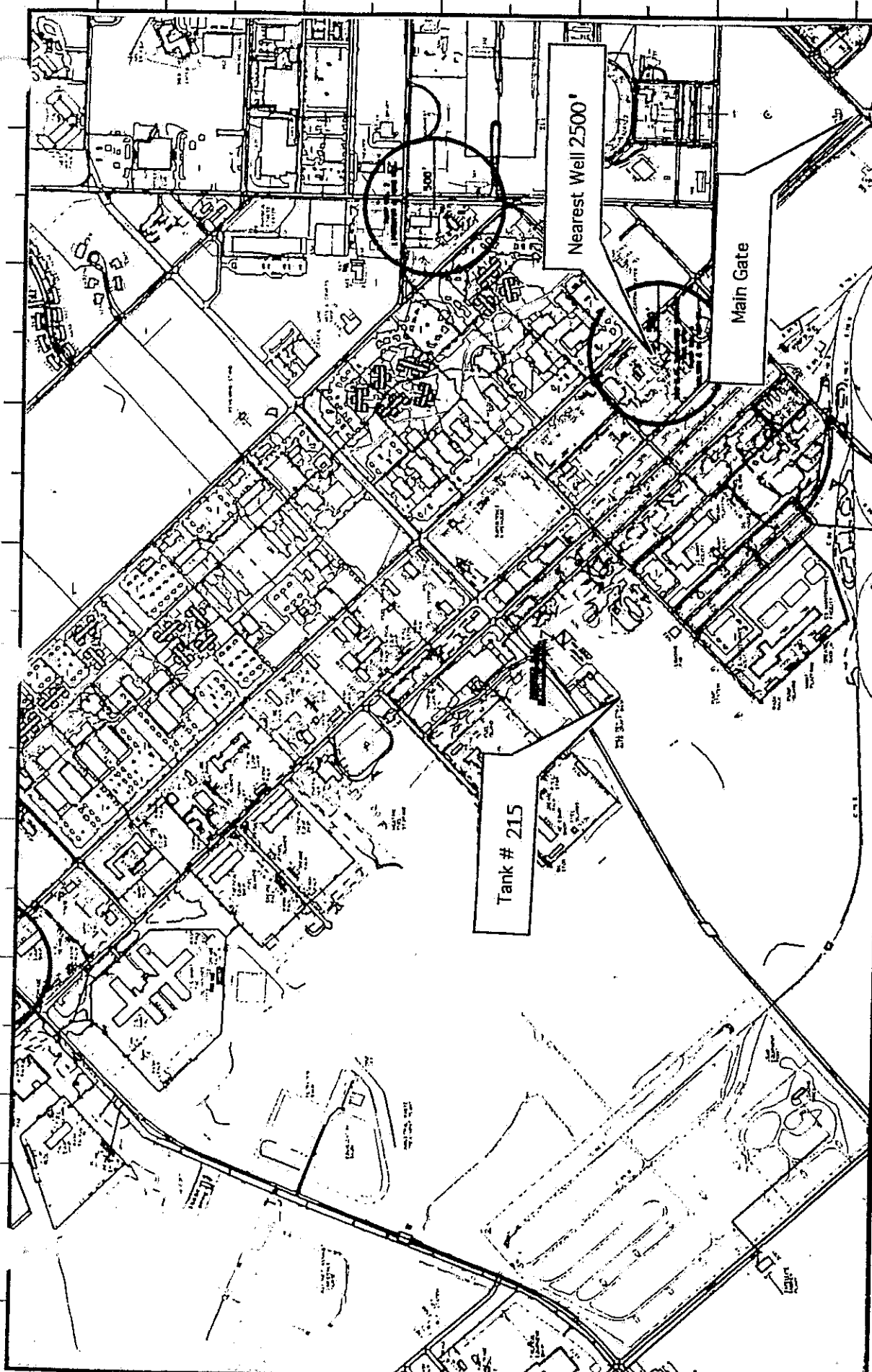
File	Time	Pres.	Grav	Comp	Site Code/Sample Number	Count	Remarks
3/16	1530				3601-TK215-S1	3	39678 47529 S
3/16	0800				3601-TK207A-S1	3	39679 47530 S
3/16	0805				3601-TK207A-S2	3	39680 47531 S
3/16	1030				3601-TK214-S1	3	39681 47532 S

TAB 9

MANIFESTS

TAB 9
MANIFESTS

No contaminated soil was removed from this site. Therefore, no manifests are included in this report.



LEGEND/REF. DRWG'S	ANDERSON COLUMBIA ENGINEERING		Area Map for Tank # 215	
	P.O. BOX 1386 LAKE CITY, FLORIDA 32656 (904) 755-1196		Fort Stewart	
Base map of Fort Stewart.	DR. AIR	CH'D SRC	DR. APP. DFB	Hinesville, Georgia
	ENGR.	ENGR'G DEPT.		Facility Id. No. 9-089015
	DATE 9 Oct 96	SCALE 1" = 1000'	DRAWING NO.: FIGURE 1	