CLOSURE REPORT

Waste Oil Tanks
Building 1820, Tank #07
Facility ID #: 9-089067

Fort Stewart, Georgia

Prepared by

Fort Stewart Directorate of Public Works, Environmental Branch

June 1997

Fort Stewart, Georgia
Underground Storage Tank Removal and Closure Report

Table of Contents

Prepared by

Fort Stewart Directorate of Public Works, Environmental Branch

CLOSURE REPORT ADDENDUM

FACILITY ID. NO. 9-089067
UST #7

APRIL 9, 1998

NOTE: PLEASE INSERT THIS ADDENDUM INTO THE CLOSURE REPORT SUBMITTED TO THE USTMP IN JULY 1997

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: Department of the Army
Phone Number: (912) 767-1234/2010
Company: US ARMY
Address: HQ, 24th Infantry Division (Mechanized) & Ft Stewart
Fort Stewart (city) GA (state) 31314-5000 (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: _____ Date: _____

2. UST System Site Location:

Facility Name: FORT STEWART
Street Address: Bldg 1820, McFarland Avenue
Fort Stewart (city) GA (state) 31314-5000 (zip code)
Facility ID#: 9-089067

3. Contractor 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: Anderson Columbia Environmental, Inc
Address: P.O. Box 1386
Lake City, Florida 32056-1386

Signature: [signature] Date: 3/27/96

4. Site-specific Hydrogeology:

Depth to Groundwater: 3.86 ft. if encountered (See TAB 6 for site specific data)

☐ Not Applicable

5. Site Map: Include the following items on an attached site map: (See TAB 5)

- Tank Pit Area
- Piping Trenches
- Dispensers
- Sewer Lines (if present)
- Water Lines
- Tanks with their ID#s, corresponding to the Notification Form 7530-1
- Sample Locations (with sample numbers and depths)
- Scale 1 in = 40 ft
- North Arrow

6. Tank Removal:

- Date of Removal: Jan 24, 1995
- Tank Information:

Tank #	Tank Size (gallons)	Tank Contents
07	1,000	Waste Oil

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

- Attach Amended Notification Form 7530-1
- Describe Soil Sampling Procedures (and groundwater, if encountered): Sampling procedures for both tank removal activities and the subsequent groundwater investigation are provided in TAB 6.

7. Laboratory Analytical Data: The following items must be included on attached copies of the data:

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

SEE TAB 7 for analytical data (Tank removal and Groundwater Investigation)

8. Regulated Substance Released: Check the applicable box(es).

☐ Gasoline ☐ Diesel ☐ Kerosene ☒ Used Oil ☐ Other_____

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 _____ yd^3

☒ 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: Childpen's Pond
Distance to closest surface water body: ____ mile(s) or 2200 feet

☐ Not Applicable

11. Conclusions or Recommendations: Choose one.

☒ Clean Closure, thus No Further Action is Required.

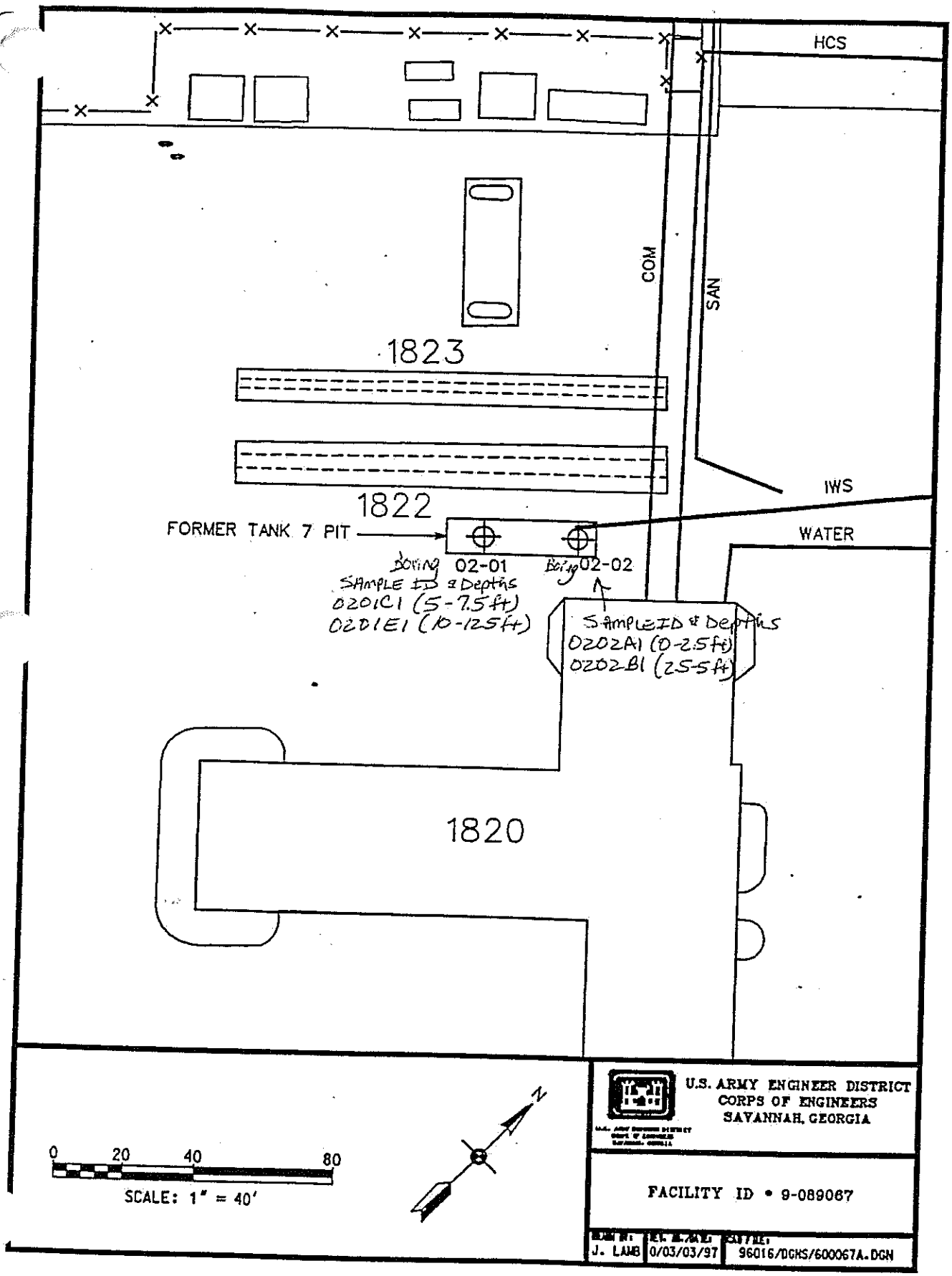
☐ Soil Excavated Within the Limits Specified in Question 7 (GUST-9) and Transported to an EPD Treatment/Disposal Facility, Thus No Further Action is Required.

CLOSURE REPORT ADDENDUM
UST #7, FACILITY ID. NO. 9-089067

SITE MAP
TAB 5

As requested, the site boring map (Map 1) previously submitted with the Closure Report has been revised annotating sample numbers and depths. At soil boring 02-02, two soil samples were collected: 0202A1 at a depth of 0-2.5 feet and 0202B1 at a depth of 2.5 to 5.0 feet. At soil boring 02-01, two soil borings were collected: 0201C1 at a depth of 5 to 7.5 feet and 0201E1 at a depth of 10 to 12.5 feet. Please replace Map 1 under Tab 5 of the Closure Report submitted in July 1997 with this revised map.

In addition, please replace Maps 2a and 2b which were previously submitted with the Closure Report that incorrectly identified the location of Tank #7.


HCS
COM
SAN
1823
1822
IWS
FORMER TANK 7 PIT
WATER
Boring 02-01
SAMPLE ID & Depths
0201C1 (5-7.5ft)
0201E1 (10-12.5ft)
Boring 02-02
SAMPLE ID & Depths
0202A1 (0-2.5ft)
0202B1 (2.5-5ft)
1820
0 20 40 80
SCALE: 1" = 40'
N
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA
FACILITY ID • 9-089067
J. LAMB
0/03/03/97
96016/DGNS/600067A.DGN

Map 1 (rev. 4/98)

Headspace Analysis

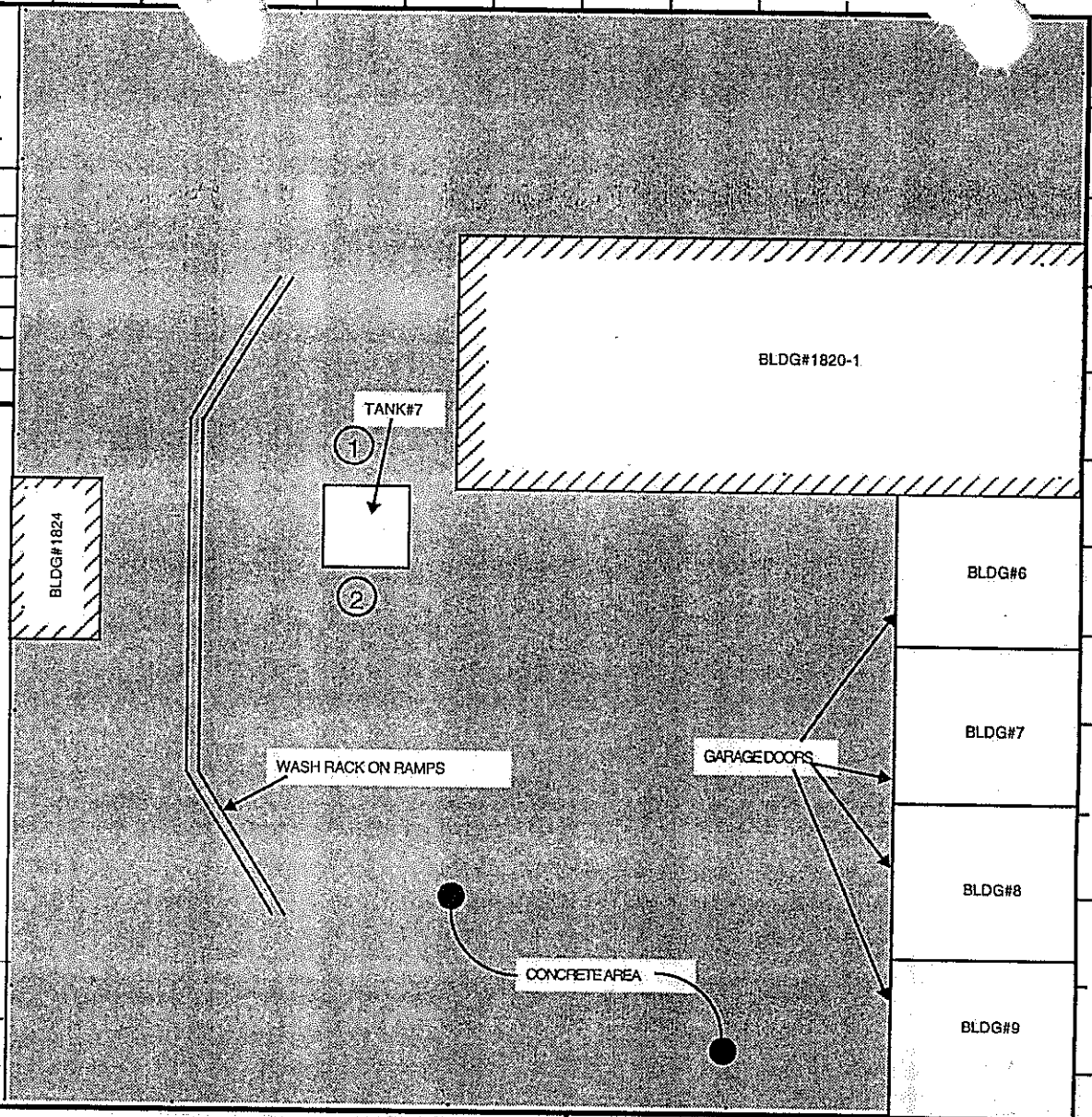
Instrument: FID Serial #: 7731

Source: Tank Pit Temp.: 70s

Sample	Depth	FID	Methane	VOA
1	2'	3500		
2	4'	1400	1200	
3	7'	3300		
4	7'	900	2000	
5	5'	2500	1200	
6	6'	1800		

Prepared for:

US Army Corps of Engineers
Savannah District



Results of Soil Analysis

Sample ID	TPH (mg/kg)	BTEX (ug/kg)
1	34.2	215.1
2	28.1	143.5

LEGEND/REF. DRWG'S

BLDG#1820-A
TANK#7-5,000 GALLON U.S.T.

(2) Soil sampling locality

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.
P. O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1196

DR. WCG CH'D SRC DR. APP

ENGR. ENGR'G DEPT.

DATE 5/05/95 SCALE N/A

Site Map
Fort Stewart, Hinesville, GA
Building 1820-1, Tank #7

DRAWING NO.: FIGURE 1

Amended 4-98

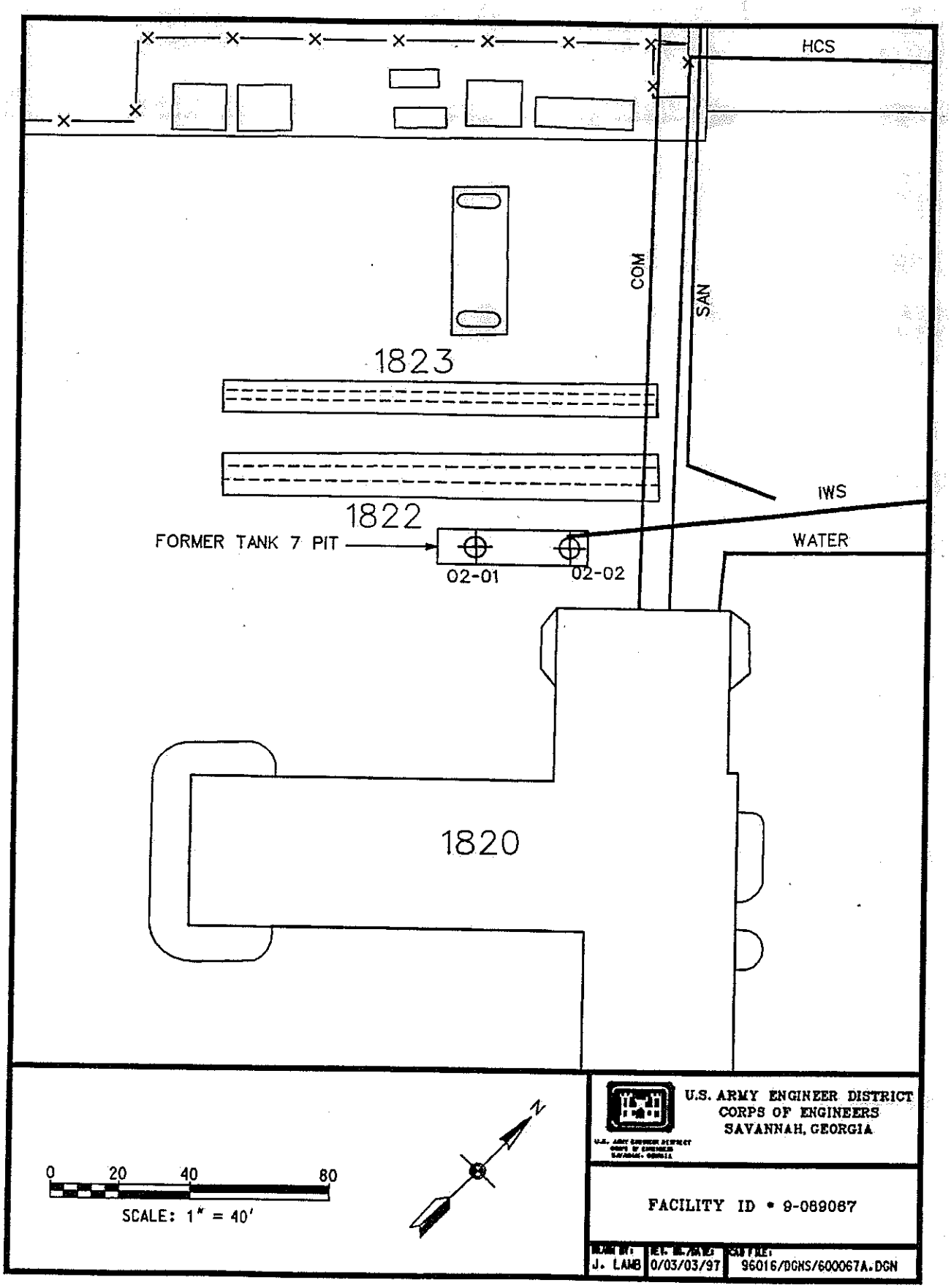
INFORMATION ON MAPS

MAPS #1: Provided to Installation by SAIC after groundwater investigation

MAPS #2a-2b: Copied from Installation archives to show exact location of USTs in relation to one another and to show how systems were installed

MAPS #3: Provided to Installation by ACE after removal of USTS (Not to scale)

NOTE: This UST was for waste oil storage and did NOT have dispensers, only a waste oil draw-off (see Map 2b).


HCS
COM
SAN
1823
IWS
1822
FORMER TANK 7 PIT
WATER
02-01
02-02
1820
0
20
40
80
SCALE: 1" = 40'
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA
FACILITY ID • 9-089087
J. LAMB
0/03/03/97
96016/DGNS/600067A.DGN

CLOSURE REPORT ADDENDUM
UST #7, FACILITY ID. NO. 9-089067

TANK REMOVAL
(CLOSURE OF PIPING)
TAB 6

The undersigned certifies that the piping associated with former Tank #7, located at Building 1820, Fort Stewart, Georgia, was purged and cleaned by our contractor, Anderson Columbia Environmental, prior to abandoning the piping in-place. In-place closure consisted of placing an absorbent sock in the pipe and then grouting the ends (i.e., the end at the tank and the end in the motorpool bay).

The undersigned also certifies that the piping at this facility was associated with Tank #7, which was used for storage of waste oil. The piping was not greater than 25', and in accordance with GUST Rules, sampling is not required.

Name: Dale F. Kiefer Title: Chief, Environmental
Natural Resources Division

Signature: Dale F Kiefer Date: 9 April 98

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

state use only

Part I: Facility Data

FACILITY ID NUMBER: 9-089067

OWNER'S ID: 197

INITIAL DATE RECEIVED: 05-06-1986

DATE AMENDED LAST:

NOTIFICATION TYPE: [ ] New [X] Amended [✓] Closure

Closure + Removed

OWNERSHIP OF TANK(S): NUMBER OF TANK(S): 4

Name : US ARMY/FT STEWART
Mailing Address: HQ 24TH INF DIV (M) ,AFZP-DEV/BLDG 1139
City : FT STEWART State : GA Zip Code: 31314-5000
Phone: (912) 767-1071 County: LIBERTY

LOCATION OF TANK(S):

Name : FT STEWART/FAC 1820
Street Address: FAC 1820
City : FT STEWART State : GA Zip Code : 31314-5000
County: LIBERTY Latitude: : : Longitude: : :
Phone : ( ) -

OWNER TYPE: [X] 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	[X] Fed Military	[ ] Farm
[ ] Auto Dealership	[ ] Commercial	[ ] Residential
[ ] Railroad	[ ] Industrial	[ ] Other
[ ] Hospital	[ ] Educational	

CONTACT PERSON IN CHARGE OF TANK(S):

Name : US ARMY/FT STEWART Title: JOHN SPEAR/ENV ENG
Address: HQ 24TH INF DIV (M), AFZP-DEV/BLDG 1139
City : FT STEWART State: GA Zip Code: 31314-5000
Phone : (912) 767-1071

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089067	9-089067	9-089067	9-089067	
TANK ID	10	7	8	9	
Status of Tank					
Currently In Use	X		X	X	
Temp. Out of Use					
Perm. Out of Use	REMOVE FROM REGULATED LIST SEE **	X	REMOVE FROM REGULATED LIST. SEE NOTE **		
Date of Installation	01-01-1980	01-01-1980	01-01-1982	01-01-1982	
Age	15	15	13	13	
Est. Total Capacity	500	1000 ~~500~~	4,000	4,000	
Material of Construction					
Asphalt or Bare Steel	X	X			
Cath. Protected Steel					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.					
Lined Interior					
Double Walled					
Poly. Tank Jacket					
Concrete			X	X	
Excavation Liner					
Unknown					
Other, explanation					
Date Tank Repaired					
Material					
e Steel					
ivanized Steel	X	X	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	X				
Used Oil		X			
Propane					
y					
Other, explanation			OIL/WATER SEP	OIL/WATER SEP	

4. TANKS 8 & 9 ARE PART OF WASTEWATER TREATMENT SYSTEM AND ARE FLOW THROUGH SYSTEM SEE LTR DTD 1/1/94 FROM R. STEWART TO TANK REGULATING THESE TANKS.

4.* TANK 10 SINCE [illegible] R. STEWART, MGR. [illegible]

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089067	9-089067	9-089067	9-089067
TANK ID	10	7	8	9
Substance Stored in Tank				
Hazardous Substance				
CERCLA Name				
CAS Number				
Mixture				
Mixture, Specification				
Out of Use/Change Service	Tank / Piping	Tank / Piping	Tank / Piping	Tank / Piping
Est. Date Last Used		08-94		
Est. Date Closed Removed from Ground		01-24-95		
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				
Other Allowed Method				
Method Description				
Release Detection	Tank / Piping	Tank / Piping	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/overflow 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:

JOHN H. SPEARS	Chief, Environmental Branch
Owner Name	Title
Owner's Signature	Date

TAB 6
FIELD ASSESSMENT METHODS (Groundwater Investigation)

The groundwater investigation at the site included the following activities:

1. Drill two soil boreholes located within the former tank pit down to the local water table using a hollow-stem auger rig. In cases where two USTs are present at a site, drill one soil borehole near the center of each former tank pit.

2. Continuously collect soil samples from 2.5 foot intervals during borehole drilling and perform field headspace gas analysis on each sample to determine organic vapor concentration.

3. Select soil samples for laboratory analysis according to the criteria noted below for each borehole drilled. Chemical parameters for soil samples submitted for laboratory analysis included BTEX, PAH, and TPH.

In boreholes where organic vapors were detected, collect one soil sample from the 2.5-foot interval where the highest vapor concentration was encountered, and the other from the 2.5-foot interval located immediately above or at the water table.

In boreholes where no organic vapors were detected, collect no soil samples for chemical analysis.

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

GROUNDWATER DEPTH MEASUREMENTS AND CALCULATED GROUNDWATER ELEVATIONS

Tank	Borehole	Water Level Depth	Ground Surface Elevation	Water Level Elevation
07	02-01	6.42 feet BGS	69.20 feet MLS	62.78 feet MLS
	02-02	3.86 feet BGS	69.18 feet MLS	65.32 feet MLS

TAB 6

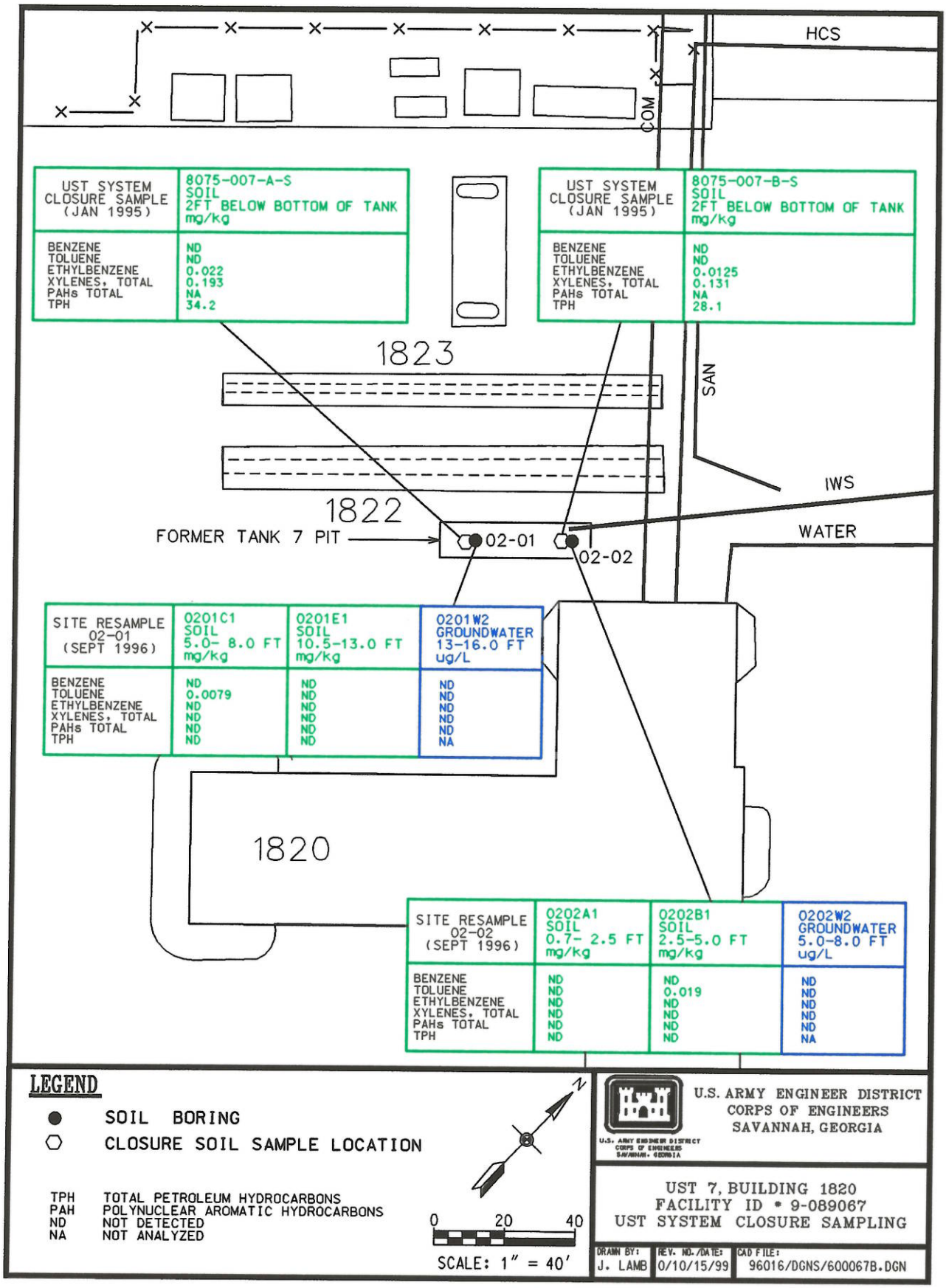
FIELD ASSESSMENT METHODS (Tank Removal)

SOIL SAMPLES

Soil samples for analytical testing were collected by Anderson Columbia Environmental, Inc. (ACE) personnel two (2) feet below both ends of the former tank pit. Soil samples were collected into 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, James H. Carr & Associates, Inc., Environmental Services, located in Columbia, South Carolina.

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.


HCS
COM
SAN
IWS
WATER
1823
1822
1820
FORMER TANK 7 PIT
02-01
02-02
UST SYSTEM CLOSURE SAMPLE (JAN 1995)
8075-007-A-S SOIL 2FT BELOW BOTTOM OF TANK mg/kg
BENZENE ND
TOLUENE ND
ETHYLBENZENE 0.022
XYLENES, TOTAL 0.193
PAHs TOTAL NA
TPH 34.2
UST SYSTEM CLOSURE SAMPLE (JAN 1995)
8075-007-B-S SOIL 2FT BELOW BOTTOM OF TANK mg/kg
BENZENE ND
TOLUENE ND
ETHYLBENZENE 0.0125
XYLENES, TOTAL 0.131
PAHs TOTAL NA
TPH 28.1
SITE RESAMPLE 02-01 (SEPT 1996)
0201C1 SOIL 5.0- 8.0 FT mg/kg
0201E1 SOIL 10.5-13.0 FT mg/kg
0201W2 GROUNDWATER 13-16.0 FT ug/L
BENZENE ND ND ND
TOLUENE 0.0079 ND ND
ETHYLBENZENE ND ND ND
XYLENES, TOTAL ND ND ND
PAHs TOTAL ND ND ND
TPH ND ND NA
SITE RESAMPLE 02-02 (SEPT 1996)
0202A1 SOIL 0.7- 2.5 FT mg/kg
0202B1 SOIL 2.5-5.0 FT mg/kg
0202W2 GROUNDWATER 5.0-8.0 FT ug/L
BENZENE ND ND ND
TOLUENE ND ND ND
ETHYLBENZENE ND ND ND
XYLENES, TOTAL ND ND ND
PAHs TOTAL ND ND ND
TPH ND ND NA
LEGEND
SOIL BORING
CLOSURE SOIL SAMPLE LOCATION
TPH TOTAL PETROLEUM HYDROCARBONS
PAH POLYNUCLEAR AROMATIC HYDROCARBONS
ND NOT DETECTED
NA NOT ANALYZED
N
0 20 40
SCALE: 1" = 40'
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS SAVANNAH, GEORGIA
UST 7, BUILDING 1820
FACILITY ID * 9-089067
UST SYSTEM CLOSURE SAMPLING
DRAWN BY: J. LAMB
REV. NO./DATE: 0/10/15/99
CAD FILE: 96016/DGNS/600067B.DGN

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:

Analyte	Soil ug/Kg	Water ug/L
Benzene	5	5
Toluene	5	5
Ethylbenzene	5	5
Xylenes	10	10
PAHs	330	10
	mg/Kg	mg/L
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:

Analyte	Soil ug/Kg	Water ug/L
Benzene	2	2
Toluene	2	2
Ethylbenzene	2	2
Xylenes	4	4
PAHs	70	2
	mg/Kg	mg/L
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) 766-1178

Investigation: 02

	Station	02-01	02-01	02-02	02-02
	Sample ID	0201C1	0201E1	0202A1	0202B1
	Date Collected	9/6/96	9/6/96	9/6/96	9/6/96
	Depth	5.0 - 8.0 FT	10.5 - 13.0 FT	0.7 - 2.5 FT	2.5 - 5.0 FT
	GDNR Level				
Polynuclear Aromatic Hydrocarbons	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
2-Chloronaphthalene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Acenaphthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Acenaphthylene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Anthracene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(a)anthracene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(a)pyrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(b)fluoranthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(g,h,i)perylene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(k)fluoranthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Chrysene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Dibenzo(a,h)anthracene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Fluoranthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Fluorene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Indeno(1,2,3-cd)pyrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Naphthalene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Phenanthrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Pyrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
	GDNR Level				
Petroleum Hydrocarbons	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Total Petroleum Hydrocarbons	NRC	11.7 U	10 U	10 U	11.3 U
	GDNR Level				
Volatile Organics	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Benzene	0.008	0.0056 U	0.0066 U	0.0053 U	0.0062 U
Ethylbenzene	10	0.0056 U	0.0066 U	0.0053 U	0.0062 U
Toluene	6	0.0079 =	0.0066 U	0.0053 U	0.019 =
Xylenes, Total	700	0.0056 U	0.0066 U	0.0053 U	0.0062 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the Facility ID #9-089067, UST 7, Site Investigation

An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4000

CHAIN OF CUSTODY RECORD

COC NO.: G0008

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): SHARON STALLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD TPH	PAH, TPH	PAH, DRO	No. of Bottles/Matrix	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1502B1	9/6/96	1526	SOIL	1		1								17.4 ppm	
1505A3	9/6/96	1110	SOIL	1							1			0 ppm	
1501C1	9/6/96	0950	SOIL	1		1								>1999 ppm	
3904C1	9/6/96	0905	SOIL	1							1			1999 ppm	OVA readings were questionable
1602B1	9/6/96	1625	SOIL	1		1								9.1 ppm	
4001B1	9/6/96	1100	SOIL											24.0 ppm	
1505B3	9/6/96	1115	SOIL	1		1								0 ppm	
1601B1	9/6/96	1450	SOIL	1		1								141.2 ppm	
1506B1	9/6/96	1320	SOIL	1		1								0 ppm	
1501B1	9/6/96	0930	SOIL	1							1			0 ppm	
1505B1	9/6/96	1112	SOIL	1		1								0 ppm	
0201E1	9/6/96	1535	SOIL							1				68.5 ppm	
0202A1	9/6/96	1315	SOIL											1991 ppm	

TOTAL NUMBER OF CONTAINERS: 52

Cooler ID: #125

Cooler Temperature: [illegible]

RELINQUISHED BY: [signature]	Date/Time 1315 9/6/96	RECEIVED BY:	Date/Time	
COMPANY NAME: SAIC		COMPANY NAME:		
RECEIVED BY: Raynal E. Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time	
COMPANY NAME: GEL	1310	COMPANY NAME:		
RELINQUISHED BY: Raynal E. Reed	Date/Time 9/8/96	RECEIVED BY: [signature]	Date/Time 09-09-96	
COMPANY NAME: GEL	1630	COMPANY NAME: GEL	1630	

An Employee Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4000

CHAIN OF CUSTODY RECORD

COC NO.: G0010

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): SHARON SOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEND, TPH	PAH, TPH	PAH, TPO	No. of Bottles/Matrix	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
2002W2	9/7/96	1525	WATER											2.9 ppm	
1507W2	9/7/96	1025	WATER					1						not recorded	
1508W2	9/7/96	1200	WATER					1						6.7 ppm	
0503W2	9/7/96	1110	WATER					1						not recorded	
0201C1	9/6/96	1515	SOIL							1				1499 ppm	
0101A3	9/6/96	1145	SOIL											59.9 ppm	
		515 9/8/96													

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
[signature]	9/8/96		
COMPANY NAME: SAIC	1310	COMPANY NAME:	
RECEIVED BY: Raymond Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL	1310	COMPANY NAME:	
RELINQUISHED BY: Raymond Reed	Date/Time 9/8/96	RECEIVED BY: [signature]	Date/Time 09-09-96
COMPANY NAME:	1630	COMPANY NAME: [illegible]	16:30

TOTAL NUMBER OF CONTAINERS: 15

Cooler ID: #208

Cooler Temperature: 2°

OCT-19-1999 11:43 SAIC RECEPTIONIST-TOWER 423 482 7257 P.03/16

SAIC An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 482-4000

CHAIN OF CUSTODY RECORD

COC NO.: G0017

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): Shawn Stoller

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO	TPH	No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
3904W3	9/6/96	0945	WATER					1								
0301W2	9/6/96	1500	WATER					1								
0101A1	9/6/96	1145	SOIL							1					599 ppm	
0101B3	9/6/96	1145	SOIL												3.4 ppm	
1506A1	9/6/96	1317	SOIL	1							1				0 ppm	
0202B1	9/6/96	1315	SOIL												1999 ppm	
0101B1	9/6/96	1145	SOIL							1					3.6 ppm	
		4s	9/6/96													

RELINQUISHED BY: [signature]	Date/Time 9/8/96	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS:	Cooler Temperature:
COMPANY NAME: SAIC	1310	COMPANY NAME:		Cooler ID: #248	3.0
RECEIVED BY: Raymond E Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL	1310	COMPANY NAME:			
RELINQUISHED BY: Raymond E Reed	Date/Time 9/10/96	RECEIVED BY: [signature]	Date/Time 9.9.96		
COMPANY NAME: GEL	1630	COMPANY NAME: GEL	16.30		

Chain says 3904W3 bottle says 3904W2 used what was on bottle.

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201C1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69089S

Matrix: (soil/water) SOIL Lab Sample ID: 9609089-08

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z334

% Moisture: 11 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/12/96

Injection Volume: _____(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
71-43-2	Benzene	5.6	U
108-88-3	Toluene	7.9	
100-41-4	Ethylbenzene	5.6	U
1330-20-7	Xylenes (total)	5.6	U

U = 4U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201C1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69089S

Matrix: (soil/water) SOIL Lab Sample ID: 9609089-08

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 2L306

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

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/Kg	Q
91-20-3	naphthalene	372	U
91-58-7	2-chloronaphthalene	372	U
209-96-8	acenaphthylene	372	U
83-32-9	acenaphthene	372	U
86-73-7	fluorene	372	U
85-01-8	phenanthrene	372	U
120-12-7	anthracene	372	U
206-44-0	fluoranthene	372	U
129-00-0	pyrene	372	U
56-55-3	benzo(a)anthracene	372	U
218-01-9	chrysene	372	U
205-99-2	benzo(b)fluoranthene	372	U
207-08-9	benzo(k)fluoranthene	372	U
50-32-8	benzo(a)pyrene	372	U
193-39-5	indeno(1,2,3-cd)pyrene	372	U
53-70-3	dibenz(a,h)anthracene	372	U
191-24-2	benzo(g,h,i)perylene	372	U

U

DATA VALIDATION COPY

Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Page: 1

Parameter	Sample I.D.:	0201C1
	Lab I.D.:	9609089-08
	Sample Matrix:	Soil
	Date Collected:	09/07/96
	Date Received:	09/08/96
	Priority:	Routine
	Collected by:	Client

Analyte:	Qualifier	Result	Units	Method	Analyst	DateTime
Total Rec. Petro.Hydrocarbons	B	11.7 U FQ1,F07	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss		11	%			

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1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

0201E1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-03

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z310

% Moisture: 24 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
71-43-2	Benzene	6.6	U
108-88-3	Toluene	6.6	U
100-41-4	Ethylbenzene	6.6	U
1330-20-7	Xylenes (total)	6.6	U

U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201E1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-03

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 1L310

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 24 decanted: (Y/N) N Date Extracted: 09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

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/Kg	Q
91-20-3	naphthalene	436	U
91-58-7	2-chloronaphthalene	436	U
209-96-8	acenaphthylene	436	U
83-32-9	acenaphthene	436	U
86-73-7	fluorene	436	U
85-01-8	phenanthrene	436	U
120-12-7	anthracene	436	U
206-44-0	fluoranthene	436	U
129-00-0	pyrene	436	U
56-55-3	benzo(a)anthracene	436	U
218-01-9	chrysene	436	U
205-99-2	benzo(b)fluoranthene	436	U
207-08-9	benzo(k)fluoranthene	436	U
50-32-8	benzo(a)pyrene	436	U
193-39-5	indeno(1,2,3-cd)pyrene	436	U
53-70-3	dibenz(a,h)anthracene	436	U
191-24-2	benzo(g,h,i)perylene	436	U

U

DATA VALIDATION COPY

Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Page: 1

Sample I.D.:	0201E1
Lab I.D.:	9609088-03
Sample Matrix:	Soil
Date Collected:	09/06/96
Date Received:	09/08/96
Priority:	Routine
Collected by:	Client

Parameter	Qualifier	Result	Units	Method	Analyst	DateTime
Analyte:						
Total Rec. Petro.Hydrocarbons	JB	~~7.35~~ 24	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss			%			

10 u F01, F06

DATA VALIDATION COPY

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202A1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-04

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z311

% Moisture: 6 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10 (ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	5.3	U	U
108-88-3	Toluene	5.3	U	
100-41-4	Ethylbenzene	5.3	U	
1330-20-7	Xylenes (total)	5.3	U	

DATA VALIDATION COPY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202A1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-04

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 1L311

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 6 decanted: (Y/N) N Date Extracted: 09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

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/Kg	Q
91-20-3	naphthalene	349	U
91-58-7	2-chloronaphthalene	349	U
209-96-8	acenaphthylene	349	U
83-32-9	acenaphthene	349	U
86-73-7	fluorene	349	U
85-01-8	phenanthrene	349	U
120-12-7	anthracene	349	U
206-44-0	fluoranthene	349	U
129-00-0	pyrene	349	U
56-55-3	benzo(a)anthracene	349	U
218-01-9	chrysene	349	U
205-99-2	benzo(b)fluoranthene	349	U
207-08-9	benzo(k)fluoranthene	349	U
50-32-8	benzo(a)pyrene	349	U
193-39-5	indeno(1,2,3-cd)pyrene	349	U
53-70-3	dibenz(a,h)anthracene	349	U
191-24-2	benzo(g,h,i)perylene	349	U

U

DATA VALIDATION COPY

Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Page: 1

Sample I.D.:	0202A1
Lab I.D.:	9609088-04
Sample Matrix:	Soil
Date Collected:	09/06/96
Date Received:	09/08/96
Priority:	Routine
Collected by:	Client

Parameter	Qualifier	Result	Units	Method	Analyst	DateTime
Analyte:						
Total Rec. Petro.Hydrocarbons	JB	~~74~~ 6	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss			%			

10 U F41, F46

DATA VALIDATION COPY

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

0202B1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-13

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z320

% Moisture: 19 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10 (ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
71-43-2	Benzene	6.2	U
108-88-3	Toluene	19	
100-41-4	Ethylbenzene	6.2	U
1330-20-7	Xylenes (total)	6.2	U

U = U U

DATA VALIDATION COPY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202B1

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-13

Sample wt/vol: 30.4 (g/mL) g Lab File ID: 1L320

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 19 decanted: (Y/N) N Date Extracted: 09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/19/96

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/Kg	Q
91-20-3	naphthalene	407	U
91-58-7	2-chloronaphthalene	407	U
209-96-8	acenaphthylene	407	U
83-32-9	acenaphthene	407	U
86-73-7	fluorene	407	U
85-01-8	phenanthrene	407	U
120-12-7	anthracene	407	U
206-44-0	fluoranthene	407	U
129-00-0	pyrene	407	U
56-55-3	benzo(a)anthracene	407	U
218-01-9	chrysene	407	U
205-99-2	benzo(b)fluoranthene	407	U
207-08-9	benzo(k)fluoranthene	407	U
50-32-8	benzo(a)pyrene	407	U
193-39-5	indeno(1,2,3-cd)pyrene	407	U
53-70-3	dibenz(a,h)anthracene	407	U
191-24-2	benzo(g,h,i)perylene	407	U

U

DATA VALIDATION COPY

Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Page: 1

Sample I.D.:	0202B1
Lab I.D.:	9609088-13
Sample Matrix:	Soil
Date Collected:	09/06/96
Date Received:	09/08/96
Priority:	Routine
Collected by:	Client

Parameter	Qualifier	Result	Units	Method	Analyst	DateTime
Analyte:						
Total Rec. Petro.Hydrocarbons	JB	11.3 U	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss		19	%			

MAP
1/7/97

DATA VALIDATION COPY

168

Investigation: 02

	Station	02-01	02-02
	Sample ID	0201W2	0202W2
	Date Collected	9/6/96	9/6/96
	Depth	13.0 - 16.0 FT	5.0 - 8.0 FT
Polynuclear Aromatic Hydrocarbons	EPA MCL UG/L	UG/L	UG/L
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	EPA MCL UG/L	UG/L	UG/L
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089067, UST 7, Site Investigation

SAIC — An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4900

CHAIN OF CUSTODY RECORD

COC NO.: GØØ14

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): Simpson Stacker (Printed Name): Simpson Stacker

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO.:(803) 556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO	TPH			No. of Bottles/Vials	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1502W2	9/6/96	1535	WATER				2	1								3	150 ppm	sample water layer not present
1506W4	9/6/96	1340	WATER				2	1								3	Ø ppm	
1506W2	9/6/96	1330	WATER				2	1								3	Ø ppm	
Ø202W2	9/6/96	1335	WATER				2									2	Ø ppm	
Ø2Ø2W2		SLS 9/8/96																
Ø2Ø1W1	9/6/96	1550	WATER				2									2		
		SLS 9/8/96																

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 13	Cooler Temperature:
COMPANY NAME: SAIC	9/9/96 1310	COMPANY NAME:		Cooler ID: #224	3°
RECEIVED BY: Raymond E Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time	Chain says 0202W2 bottle says 0201W2 we used what was on bottle.	
COMPANY NAME: GEL	13:10	COMPANY NAME:			
RELINQUISHED BY: Raymond E Reed	Date/Time 9/8/96	RECEIVED BY:	Date/Time 09-09-96		
COMPANY NAME: GEL	1630	COMPANY NAME:	16:30		

10/15/99 10:37 ☎912 767 9779 DPW-ENRD FT STEW ☑001

An Employee-Owned Company
Science Applications International Corporation
800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4000

CHAIN OF CUSTODY RECORD

COC NO.: G00

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] **(Printed Name):** Shannon Sizler

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

REQUESTED PARAMETERS: BTEX, GRO | BTEX | PAH, Lead, DRO | PAH | Lead | DRO | No. of Bottles/Vials

Sample ID	Date Collected	Time Collected	Matrix	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
TB0008	9/6/96	0759	WATER		
1601W2	9/6/96	1500			
0101W2	9/6/96	1020			
1506W4	9/6/96	1340			
1502W2	9/6/96	1535			sample water only, not product
0202W2	9/6/96	1335			
1602W2	9/6/96	1638			
0104A1	Sub 9/6/96				
4001W2	9/6/96	1135			
1501W2	9/6/96	1006			
0201W2	9/6/96	1550			
1602R6	9/6/96	1550			
3904W2	9/6/96	945			

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 84	Cooler Temperature:
[signature]	9/8/96			Cooler ID: #237	5.6
COMPANY NAME: SAIC	1310	COMPANY NAME:			
RECEIVED BY: Raymond Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL	1310	COMPANY NAME:			
RELINQUISHED BY: Raymond Reed	Date/Time 9/8/96	RECEIVED BY: [signature]	Date/Time 09-09-96		
COMPANY NAME: GEL	1630	COMPANY NAME: GEL	1630		

10/15/99 10:38 ☎912 767 9779 DPW-ENRD FT STEW 002

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0201W2

Lab Name: GENERAL ENGINEERING LABOR Contract:
Lab Code: Case No.: SAS No.: SDG No.: 69092W
Matrix: (soil/water) WATER Lab Sample ID: 9609092-10
Sample wt/vol: 20 (g/ml) ml Lab File ID: 1Z317
Level: (low/med) LOW Date Received: 09/08/96
% Moisture: not dec. _____ Date Analyzed: 09/11/96
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
71-43-2	benzene	5.0	U
108-88-3	toluene	5.0	U
100-41-4	ethylbenzene	5.0	U
1330-20-7	xylenes (total)	5.0	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201W2

Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69090W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609090-06

Sample wt/vol: 500 (g/mL) mL Lab File ID: 2K216

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/09/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/10/96

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	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

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DATA VALIDATION COPY

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0202W2

Lab Name: GENERAL ENGINEERING LABOR Contract:
Lab Code: Case No.: SAS No.: SDG No.: 69092W
Matrix: (soil/water) WATER Lab Sample ID: 9609092-06
Sample wt/vol: 20 (g/ml) ml Lab File ID: 1Z314
Level: (low/med) LOW Date Received: 09/08/96
% Moisture: not dec. _____ Date Analyzed: 09/11/96
GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume:_____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
71-43-2	benzene	5.0	U
108-88-3	toluene	5.0	U
100-41-4	ethylbenzene	5.0	U
1330-20-7	xylenes (total)	5.0	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202W2

Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69090W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609090-05

Sample wt/vol: 500 (g/mL) mL Lab File ID: 2K215

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/09/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/10/96

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	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

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DATA VALIDATION COPY

UST #7, BUILDING 1820, FACILITY ID. NO. 9-025067
SUMMARY OF SOIL ANALYTICAL DATA OBTAINED DURING UST CLOSURE SAMPLING (JANUARY 1995)

Station:	Screening Level	8075-007-A-S	8075-007-B-S
Sample Number:	GA UST	4641	4642
Sample Depth:		2 ft below bottom of tank	2 ft below bottom of tank
Media:	Soil	Soil	Soil
Sample Type:	Threshold	Grab	Grab
Collection Date:	Levels	1/24/95	1/24/95
Units:	(µg/kg)	(µg/kg)	(µg/kg)
Benzene	8	ND	ND
Toluene	600	ND	ND
Ethylbenzene	10,000	22 =	12.5 =
Xylenes, Total	700,000	193 =	131 =
TPH-Diesel Range Organics (mg/kg)	-	**34.2** =	**28.1** =

10 Bold values indicate results exceeding Georgia UST action levels.
Note: PAHs were not analyzed on the soil samples. In addition, the soil samples were received by the laboratory at an elevated temperature and with no chain of custody seal. Therefore, the site was resampled in September 1996, at sampling locations approximately the same as the closure sample stations.

AMES H. CARR & ASSOCIATES, INC.
Environmental Services

919 True Street ▪ P.O. Box 90209 ▪ Columbia, SC 29290
(803) 776-7789 ▪ (800) 435-3995 ▪ FAX (803) 783-2192

FINAL REPORT OF ANALYSES

ANDERSON COLUMBIA ENVIRON.,INC
P.O. Box 1386
Lake City,. FL 32056
Attn: Mr. Mike McRae

REPORT DATE: 02/08/95
PROJECT NAME- Ft.Stewart 1/30

SAMPLE ID- 8075-007-A-S UST #7

SAMPLE NUMBER- 4641
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/24/95
TIME SAMPLED- 1400
DATE RECEIVED- 01/30/95
TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- RM
SAMPLER- Diane Howell

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
OLIDS	87.2	%	0.01		01/31/95		
. PET. HYDROCARBONS-OIL	34.2	mg/Kg	11.5	02/06/95	02/07/95	9071	
VOLATILE ORGANIC COMPOUNDS					01/30/95	8020	
BENZENE	<1.15	ug/Kg	1.15				
TOLUENE	<1.15	ug/Kg	1.15				
CHLOROBENZENE	<1.15	ug/Kg	1.15				
M,P-XYLENES	183.	ug/Kg	2.29				
O-XYLENES	10.3	ug/Kg	1.15				
ETHYL BENZENE	21.8	ug/Kg	1.15				
1,2-DICHLOROBENZENE	<1.15	ug/Kg	1.15				
1,3-DICHLOROBENZENE	<1.15	ug/Kg	1.15				
1,4-DICHLOROBENZENE	<1.15	ug/Kg	1.15				
SURROGATE BROMOFLUOROBENZENE	85	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	94	% Recovery					

SAMPLE ID- 8075-007-B-S UST #7

SAMPLE NUMBER- 4642
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/24/95
TIME SAMPLED- 1355
DATE RECEIVED- 01/30/95
TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- RM
SAMPLER- Diane Howell

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
OLIDS	87.9	%	0.01		01/31/95		
. PET. HYDROCARBONS-OIL	28.1	mg/Kg	11.4	02/06/95	02/07/95	9071	
ILE ORGANIC COMPOUNDS					01/30/95	8020	

R and ASSOCIATES

CONTINUATION OF DATA FOR SAMPLE NUMBER 4642

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
BENZENE	<1.14	ug/Kg	1.14				
TOLUENE	<1.14	ug/Kg	1.14				
CHLOROBENZENE	<1.14	ug/Kg	1.14				
M,P-XYLENES	.131	ug/Kg	2.28				
O-XYLENES	<1.14	ug/Kg	1.14				
ETHYL BENZENE	12.5	ug/Kg	1.14				
1,2-DICHLOROBENZENE	<1.14	ug/Kg	1.14				
1,3-DICHLOROBENZENE	<1.14	ug/Kg	1.14				
1,4-DICHLOROBENZENE	<1.14	ug/Kg	1.14				
SURROGATE BROMOFLUOROBENZENE	79	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	89	% Recovery					

SAMPLE ID- 8075-94-A-A-S

SAMPLE NUMBER- 4643
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/25/95
TIME SAMPLED- 1145
DATE RECEIVED- 01/30/95

TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- RM
SAMPLER- Diane Howell

UST#94

YSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	88.7	%	0.01		01/31/95		
TOT. PET. HYDROCARBONS-OIL	9060	mg/Kg	11.3	02/06/95	02/07/95	9071	
VOLATILE ORGANIC COMPOUNDS					01/31/95	8020	
BENZENE	496.	ug/Kg	113				100
TOLUENE	4800	ug/Kg	113				100
CHLOROBENZENE	<113	ug/Kg	113				100
M,P-XYLENES	13900	ug/Kg	225.				200
O-XYLENES	5610	ug/Kg	113				100
ETHYL BENZENE	2650	ug/Kg	113				100
1,2-DICHLOROBENZENE	496.	ug/Kg	113				100
1,3-DICHLOROBENZENE	<113	ug/Kg	113				100
1,4-DICHLOROBENZENE	<113	ug/Kg	113				100
SURROGATE BROMOFLUOROBENZENE	109	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	114	% Recovery					

UST #94

R and ASSOCIATES

SAMPLE ID- 8075-94-A-B-S

SAMPLE NUMBER- 4644
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/25/95
TIME SAMPLED- 1150
DATE RECEIVED- 01/30/95

TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- RM
SAMPLER- Diane Howell

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	87.3	%	0.01		01/31/95		
TOT. PET. HYDROCARBONS-OIL	4720	mg/Kg	11.4	02/06/95	02/07/95	9071	
VOLATILE ORGANIC COMPOUNDS					01/31/95	8020	
BENZENE	281	ug/Kg	114.				100
TOLUENE	2550	ug/Kg	114.				100
CHLOROBENZENE	<114.	ug/Kg	114.				100
M,P-XYLENES	8040	ug/Kg	229.				200
O-XYLENES	4780	ug/Kg	114.				100
ETHYL BENZENE	1040	ug/Kg	114.				100
1,2-DICHLOROBENZENE	488	ug/Kg	114.				100
1.3-DICHLOROBENZENE	384	ug/Kg	114.				100
-DICHLOROBENZENE	590	ug/Kg	114.				100
ROGATE BROMOFLUOROBENZENE	115	% Recovery					
GATE aaa-TRIFLUOROTOLUENE	100	% Recovery					

UST #94

UST #94

SCDHEC Laboratory ID 40111

LABORATORY DIRECTOR _____
James H. Carr

JAMES H. CARR & ASSOCIATES, INC.
Environmental Services

QC REPORT FOR ANDERSON COLUMBIA ENVIRON.,INC 02/08/95

QA/QC for SAMPLE Nos: 4641, 4642, 4643, 4644,

age 1

				Precision Data			Accuracy Data					Ref. Sample Data				
alysis	Blank Conc.	Sample Number	Samp Type	Rep A	Rep B	RPD %	Samp Type	Raw Samp Conc.	Spk Add Conc.	Observed Conc.	Rec. %	Sample ID	Target Conc.	Found Conc.	Rec. %	Analy. Batch Number
NZENE	< 1	4642	MS	0.0	11.7	200.00	MS	<1.0	20.0	0.0	-2.5					5306, 5306, 5306,
20	< 1	4642					MSD	<1.0	20.0	11.7	56.0					5359, , 5306,
/Kg			BS	16.3	15.9	2.48	BS	0	20.0	16.3	81.5					, 5306, 5306,
			BS	17.9	18.3	2.21	BSD	0	20.0	15.9	79.5					, 5359, 5306,
							BS	0	20.0	17.9	89.5					, , 5359,
							BSD	0	20.0	18.3	91.5					, , 5359,
LUENE	< 1	4642	MS	0.0	11.3	200.00	MS	<1.0	20.0	0.0	-2.5					5306, 5306, 5306,
20	< 1	4642					MSD	<1.0	20.0	11.3	54.0					5359, , 5306,
/Kg			BS	16.3	16.1	1.23	BS	0	20.0	16.3	81.5					, 5306, 5306,
			BS	18.4	18.4	0.00	BSD	0	20.0	16.1	80.5					, 5359, 5306,
							BS	0	20.0	18.4	92.0					, , 5359,
							BSD	0	20.0	18.4	92.0					, , 5359,
OROBENZENE	< 1	4642	MS	0.0	10.9	200.00	MS	<1.0	20.0	0.0	-2.5					5306, 5306, 5306,
20	< 1	4642					MSD	<1.0	20.0	10.9	52.0					5359, , 5306,
/Kg			BS	17.4	16.4	5.92	BS	0	20.0	17.4	87.0					, 5306, 5306,
			BS	18.6	18.9	1.60	BSD	0	20.0	16.4	82.0					, 5359, 5306,
							BS	0	20.0	18.6	93.0					, , 5359,
							BSD	0	20.0	18.9	94.5					, , 5359,

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QC REPORT FOR ANDERSON COLUMBIA ENVIRON.,INC 02/08/95

QA/QC for SAMPLE Nos: 4641, 4642, 4643, 4644,
'age 2

				Precision Data			Accuracy Data					Ref. Sample Data				
nalysis	Blank Conc.	Sample Number	Samp Type	Rep A	Rep B	RPD %	Samp Type	Raw Samp Conc.	Spk Add Conc.	Observed Conc.	Rec. %	Sample ID	Target Conc.	Found Conc.	Rec. %	Analy. Batch Number
,P-XYLENES	< 2	4642	MS	0.0	29.1	200.00	MS	57.6	40.0	0.0	-144.0					5306, 5306, 5306,
020	< 2	4642					MSD	57.6	40.0	86.7	72.8					5359, , 5306,
g/Kg			BS	33.5	32.1	4.27	BS	0	40.0	33.5	83.8					, 5306, 5306,
			BS	40.5	38.7	4.55	BSD	0	40.0	32.1	80.3					, 5359, 5306,
							BS	0	40.0	40.5	101.3					, , 5359,
							BSD	0	40.0	38.7	96.8					, , 5359,
-XYLENES	< 1	4642	MS	0.0	16.1	200.00	MS	<1.0	20.0	0.0	-2.5					5306, 5306, 5306,
020	< 1	4642					MSD	<1.0	20.0	16.1	78.0					5359, , 5306,
g/Kg			BS	18.3	18.0	1.65	BS	0	20.0	18.3	91.5					, 5306, 5306,
			BS	19.3	19.1	1.04	BSD	0	20.0	18.0	90.0					, 5359, 5306,
							BS	0	20.0	19.3	96.5					, , 5359,
							BSD	0	20.0	19.1	95.5					, , 5359,
HYL BENZENE	< 1	4642	MS	0.0	11.7	200.00	MS	5.3	20.0	0.0	-26.5					5306, 5306, 5306,
020	< 1	4642					MSD	5.3	20.0	17.0	58.5					5359, , 5306,
/Kg			BS	16.6	15.7	5.57	BS	0	20.0	16.6	83.0					, 5306, 5306,
			BS	20.5	19.7	3.98	BSD	0	20.0	15.7	78.5					, 5359, 5306,
							BS	0	20.0	20.5	102.5					, , 5359,
							BSD	0	20.0	19.7	98.5					, , 5359,

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QC REPORT FOR ANDERSON COLUMBIA ENVIRON.,INC 02/08/95

QA/QC for SAMPLE Nos: 4641, 4642, 4643, 4644,

Analysis	Blank Conc.	Sample Number	Samp Type	Precision Data: Rep A	Rep B	RPD %	Accuracy Data: Samp Type	Raw Samp Conc.	Spk Add Conc.	Observed Conc.	Rec. %	Ref. Sample Data: Sample ID	Target Conc.	Found Conc.	Rec. %	Analy. Batch Number
,2-DICHLOROBENZEN	< 1	4642	MS	0.0	10.4	200.00	MS	<1.0	20.0	0.0	-2.5					
020	< 1	4642					MSD	<1.0	20.0	10.4	49.5					5306, 5306, 5306,
g/Kg			BS	20.1	19.5	3.03	BS	0	20.0	20.1	100.5					5359, , 5306,
			BS	21.6	22.5	4.08	BSD	0	20.0	19.5	97.5					, 5306, 5306,
							BS	0	20.0	21.6	108.0					, 5359, 5306,
							BSD	0	20.0	22.5	112.5					, , 5359,
,3-DICHLOROBENZEN	< 1	4642	MS	0.0	10.3	200.00	MS	<1.0	20.0	0.0	-2.5					, , 5359,
020	< 1	4642					MSD	<1.0	20.0	10.3	49.0					5306, 5306, 5306,
g/Kg			BS	20.1	19.4	3.54	BS	0	20.0	20.1	100.5					5359, , 5306,
			BS	22.0	22.5	2.25	BSD	0	20.0	19.4	97.0					, 5306, 5306,
							BS	0	20.0	22.0	110.0					, 5359, 5306,
							BSD	0	20.0	22.5	112.5					, , 5359,
,4-DICHLOROBENZEN	< 1	4642	MS	0.0	10.9	200.00	MS	<1.0	20.0	0.0	-2.5					, , 5359,
020	< 1	4642					MSD	<1.0	20.0	10.9	52.0					5306, 5306, 5306,
g/Kg			BS	20.3	19.7	3.00	BS	0	20.0	20.3	101.5					5359, , 5306,
			BS	22.4	22.9	2.21	BSD	0	20.0	19.7	98.5					, 5306, 5306,
							BS	0	20.0	22.4	112.0					, 5359, 5306,
							BSD	0	20.0	22.9	114.5					, , 5359,
																, , 5359,

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Environmental Services

QC REPORT FOR ANDERSON COLUMBIA ENVIRON.,INC 02/08/95

QA/QC for SAMPLE Nos: 4641, 4642, 4643, 4644,

Analysis	Blank Conc.	Sample Number	Samp Type	Precision Data: Rep A	Rep B	RPD %	Accuracy Data: Samp Type	Raw Samp Conc.	Spk Add Conc.	Observed Conc.	Rec. %	Ref. Sample Data: Sample ID	Target Conc.	Found Conc.	Rec. %	Analy. Batch Number
URROGATE		4642					MS	0	30.0	0.0	0.0					, , 5306,
ROMOFLUOROBENZENE		4642					MSD	0	30.0	16.7	55.7					, , 5306,
020							B	0	30.0	26.3	87.7					, , 5306,
Recovery							BS	0	30.0	27.6	92.0					, , 5306,
							BSD	0	30.0	26.6	88.7					, , 5306,
							B	0	30.0	31.3	104.3					, , 5359,
							BS	0	30.0	30.3	101.0					, , 5359,
							BSD	0	30.0	30.8	102.7					, , 5359,
URROGATE aaa-TRIF		4642					MS	0	30.0	0.0	0.0					, , 5306,
UOROTOLUENE		4642					MSD	0	30.0	17.8	59.3					, , 5306,
020							B	0	30.0	28.2	94.0					, , 5306,
Recovery							BS	0	30.0	26.8	89.3					, , 5306,
							BSD	0	30.0	25.8	86.0					, , 5306,
							B	0	30.0	33.7	112.3					, , 5359,
							BS	0	30.0	30.3	101.0					, , 5359,
							BSD	0	30.0	29.5	98.3					, , 5359,

1040

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

Page___of____

Project No.	Project Name
8075	Ft. STEWART 44

Samplers (Signature): T.D.H Diane Howell

Sample Number	Date	Time	Grab	Comp.	Sample Location	No. of Containers	Preservative	8020	9071						Remarks:
8075-007-A-S	1/24/95	2:00 P.M.	✓		Soil	1	UN	✓	✓						4641
8075-007-B-S	1/24/95	1:55 P.M.	✓		Soil	1	UN	✓	✓						4642
8075-94-A-A-S	1/25/95	11:45 A.M.	✓		Soil	1	UN	✓	✓						4643
8075-94-A-B-S	1/25/95	11:50 A.M.	✓		Soil	1	UN	✓	✓						4644
TEMP VIAL	1/25/95				H2O	1	UN								= 20.1°C, ice melted
															NO C.O.C. seals

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Diane Howell	1/26/95 9:00 A.M.	Greyhound			
Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Remarks:
Greyhound	1-30-95/1000	R. Motte			

CLOSURE REPORT ADDENDUM
UST #7, FACILITY ID. NO. 9-089067

LABORATORY ANALYTICAL DATA
TAB 7

For clarification, please include in the Closure Report submitted in July 1997 (Tab 7) the written explanation from the laboratory, General Engineering Laboratory, concerning the exceedence of the detection limits for BTEX in the soil samples.

Replaced 10/28/99
Tab 7

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:

Analyte	Soil ug/Kg	Water ug/L
Benzene	5	5
Toluene	5	5
Ethylbenzene	5	5
Xylenes	10	10
PAHs	330	10
	mg/Kg	mg/L
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:

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

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(803) 556-8171 • Fax (803) 766-

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) 766-1178

LABORATORY ANALYTICAL RESULTS

Analytical results for UST #07 with the corresponding data validation and chain of custody is provided for your use and convenience. The analytical results from the groundwater investigation (Fall 1996) is followed by the analytical results from the UST removal (Spring 1995). All contaminants detected above their respective detection limits have been highlighted.

NOTE: Map #1, included in Tab 5, indicate sampling locations for the groundwater investigation. Map #3, also included in Tab 5, indicate sampling locations from the tank removal.

Investigation: 02

	Station	02-01	02-01	02-02	02-02
	Sample ID	0201C1	0201E1	0202A1	0202B1
	Date Collected	9/6/96	9/6/96	9/6/96	9/6/96
	Depth	5.0 - 8.0 FT	10.5 - 13.0 FT	0.7 - 2.5 FT	2.5 - 5.0 FT
	GDNR Level				
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Acenaphthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Acenaphthylene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Anthracene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(a)anthracene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(a)pyrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(b)fluoranthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(g,h,i)perylene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Benzo(k)fluoranthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Chrysene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Dibenzo(a,h)anthracene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Fluoranthene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Fluorene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Indeno(1,2,3-cd)pyrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Naphthalene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Phenanthrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
Pyrene	NA	0.372 U	0.436 U	0.349 U	0.407 U
	GDNR Level				
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	11.7 U	10 U	10 U	11.3 U
	GDNR Level				
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0056 U	0.0066 U	0.0053 U	0.0062 U
Ethylbenzene	10	0.0056 U	0.0066 U	0.0053 U	0.0062 U
Toluene	6	0.0079 =	0.0066 U	0.0053 U	0.019 =
Xylenes, Total	700	0.0056 U	0.0066 U	0.0053 U	0.0062 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Soil Analytical Results for the
Facility ID #9-089067, UST 7, Site Investigation

Investigation: 02

	Station	02-01	02-02
	Sample ID	0201W2	0202W2
	Date Collected	9/6/96	9/6/96
	Depth	13.0 - 16.0 FT	5.0 - 8.0 FT
Polynuclear Aromatic Hydrocarbons	**EPA MCL UG/L**	**UG/L**	**UG/L**
2-Chloronaphthalene	NA	10 U	10 U
Acenaphthene	NA	10 U	10 U
Acenaphthylene	NA	10 U	10 U
Anthracene	NA	10 U	10 U
Benzo(a)anthracene	NA	10 U	10 U
Benzo(a)pyrene	0.2	10 U	10 U
Benzo(b)fluoranthene	NRC	10 U	10 U
Benzo(g,h,i)perylene	NA	10 U	10 U
Benzo(k)fluoranthene	NRC	10 U	10 U
Chrysene	NRC	10 U	10 U
Dibenzo(a,h)anthracene	NRC	10 U	10 U
Fluoranthene	NA	10 U	10 U
Fluorene	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	NRC	10 U	10 U
Naphthalene	NA	10 U	10 U
Phenanthrene	NA	10 U	10 U
Pyrene	NA	10 U	10 U
Volatile Organics	**EPA MCL UG/L**	**UG/L**	**UG/L**
Benzene	5	5 U	5 U
Ethylbenzene	700	5 U	5 U
Toluene	1000	5 U	5 U
Xylenes, Total	10000	5 U	5 U

NRC - No Regulatory Criteria
NA - Not Applicable, the health based threshold level would be exceeded only if free product conditions existed

U - Indicates the compound was not detected at the concentration reported.
J - Indicates that the value for the compound is an estimated value.
UJ - Indicates the compound was not detected at the reported concentration and the concentration was estimated.
= - Indicates the compound was detected at the concentration reported.

Groundwater Analytical Results for the
Facility ID #9-089067, UST 7, Site Investigation

Science Applications International Corporation, An Employee-Owned Company
800 Oak Ridge Tpke., Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: 0004

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): Sharon Stoller (Printed Name): SHARON STOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	REQUESTED PARAMETERS: BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO				No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
1502B1	9/6/96	1526	SOIL	1		1										2	17.4 ppm	
1505A3	9/6/96	1110	SOIL	1								1				2	0 ppm	
1501C1	9/6/96	0950	SOIL	1		1										2	>1999 ppm	
3904C1	9/6/96	0905	SOIL	1								1				2	1999 ppm	OVA readings were questionable
1602B1	9/6/96	1625	SOIL	1		1										2	9.1 ppm	
4001B1	9/6/96	1100	SOIL		1						1					2	29.0 ppm	
1505B3	9/6/96	1115	SOIL	1		1										2	0 ppm	
1601B1	9/6/96	1450	SOIL	1		1										2	141.2 ppm	
1506B1	9/6/96	1320	SOIL	1		1										2	0 ppm	
1501B1	9/6/96	0935	SOIL	1								1				2	0 ppm	
1505B1	9/6/96	1112	SOIL	1		1										2	0 ppm	
0201E1	9/6/96	1535	SOIL	[illegible]	1					1						2	68.5 ppm	
0202A1	9/6/96	1315	SOIL		1					1						2	1999 ppm	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 52	Cooler Temperature:
Sharon Stoller	1310 9/8/96			Cooler ID: #125	
COMPANY NAME: SAIC		COMPANY NAME:			
RECEIVED BY: Raynal E Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL	1310	COMPANY NAME:			
RELINQUISHED BY: Raynal E Reed	Date/Time 9/8/96	RECEIVED BY: [signature]	Date/Time 09-09-96		
COMPANY NAME: GEL	1630	COMPANY NAME: GEL	1630		

Science Applications International Corporation — An Employee-Owned Company

800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4800

CHAIN OF CUSTODY RECORD

COC NO.: GØØ1T

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): Sharon Stoller **(Printed Name):** SHARON STOLLER

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO: (803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	PAH, LEAD, TPH	PAH, TPH	PAH, DRO	TPH	No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
3904W3	9/6/96	Ø945	WATER				2	1						3		
Ø3Ø1W2	9/6/96	1500	WATER				2	1						3		
Ø1Ø1A1	9/6/96	1145	SOIL		1					1	1			2	59.9 ppm	
Ø1Ø1B3	9/6/96	1145	SOIL		1									2	3.6 ppm	
1506A1	9/6/96	1317	SOIL	1								1		2	Oppm	
Ø2Ø2B1	9/6/96	1315	SOIL		1					1				2	1999 ppm	
Ø1Ø1B1	9/6/96	1145	SOIL		1						1			2	3.6 ppm	
		945	9/6/96													

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME: SAIC	9/8/96 1310	COMPANY NAME:	
RECEIVED BY: Raymond E Reed	Date/Time 9/8/96	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL	1310	COMPANY NAME:	
RELINQUISHED BY: Raymond E Reed	Date/Time 9/8/96	RECEIVED BY:	Date/Time 9.9.96
COMPANY NAME: GEL	1630	COMPANY NAME: GEL	16.30

TOTAL NUMBER OF CONTAINERS:

Cooler ID: #248

Cooler Temperature: 3°

Chain says 3904W3 bottle says 3904W2 used what was on bottle.

62

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201C1

Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69089S

Matrix: (soil/water) SOIL Lab Sample ID: 9609089-08

Sample wt/vol: 30.2 (g/mL) g Lab File ID: 2L306

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 11 decanted: (Y/N) N Date Extracted: 09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

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/Kg	Q
91-20-3	naphthalene	372	U
91-58-7	2-chloronaphthalene	372	U
209-96-8	acenaphthylene	372	U
83-32-9	acenaphthene	372	U
86-73-7	fluorene	372	U
85-01-8	phenanthrene	372	U
120-12-7	anthracene	372	U
206-44-0	fluoranthene	372	U
129-00-0	pyrene	372	U
56-55-3	benzo(a)anthracene	372	U
218-01-9	chrysene	372	U
205-99-2	benzo(b)fluoranthene	372	U
207-08-9	benzo(k)fluoranthene	372	U
50-32-8	benzo(a)pyrene	372	U
193-39-5	indeno(1,2,3-cd)pyrene	372	U
53-70-3	dibenz(a,h)anthracene	372	U
191-24-2	benzo(g,h,i)perylene	372	U

U

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0201E1

Lab Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-03

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z310

% Moisture: 24 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
71-43-2	Benzene	6.6	U
108-88-3	Toluene	6.6	U
100-41-4	Ethylbenzene	6.6	U
1330-20-7	Xylenes (total)	6.6	U

U ↓

DATA VALIDATION COPY

Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Sample I.D.:	0201E1
Lab I.D.:	9609088-03
Sample Matrix:	Soil
Date Collected:	09/06/96
Date Received:	09/08/96
Priority:	Routine
Collected by:	Client

Parameter	Analyte:	Qualifier	Result	Units	Method	Analyst	DateTime
Total Rec. Petro.Hydrocarbons		JB	~~7.33~~	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss			24	%			

10 U F01, F06

DATA VALIDATION COPY

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202A1

Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-04

Sample wt/vol: 30.5 (g/mL) g Lab File ID: 1L311

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: 6 decanted: (Y/N) N Date Extracted: 09/11/96

Concentrated Extract Volume: 1(mL) Date Analyzed: 09/18/96

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/Kg	Q
91-20-3	naphthalene	349	U
91-58-7	2-chloronaphthalene	349	U
209-96-8	acenaphthylene	349	U
83-32-9	acenaphthene	349	U
86-73-7	fluorene	349	U
85-01-8	phenanthrene	349	U
120-12-7	anthracene	349	U
206-44-0	fluoranthene	349	U
129-00-0	pyrene	349	U
56-55-3	benzo(a)anthracene	349	U
218-01-9	chrysene	349	U
205-99-2	benzo(b)fluoranthene	349	U
207-08-9	benzo(k)fluoranthene	349	U
50-32-8	benzo(a)pyrene	349	U
193-39-5	indeno(1,2,3-cd)pyrene	349	U
53-70-3	dibenz(a,h)anthracene	349	U
191-24-2	benzo(g,h,i)perylene	349	U

U

DATA VALIDATION COPY

1D

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202B1

Name: GENERAL ENGINEERING LABOR Contract: NA

Lab Code: NA Case No.: NA SAS No.: NA SDG No.: 69088S

Matrix: (soil/water) SOIL Lab Sample ID: 9609088-13

Sample wt/vol: 5.0 (g/mL) g Lab File ID: B2Z320

% Moisture: 19 decanted: (Y/N) N Date Received: 09/08/96

Extraction: (SepF/Cont/Sonc) PURGETRAP Date Extracted:N/A

Concentrated Extract Volume: 10(ml) Date Analyzed: 09/11/96

Injection Volume: _____(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q	
71-43-2	Benzene	6.2	U	U
108-88-3	Toluene	19		=
100-41-4	Ethylbenzene	6.2	U	U
1330-20-7	Xylenes (total)	6.2	U	U

DATA VALIDATION COPY

Client: Science Applications International Corporation
P.O. Box 2502
800 Oak Ridge Turnpike
Oak Ridge, Tennessee 37831

Date: 10/10/96

Contact: Mr. Chris Potter
ProjectDescription: Ft. Stewart UST Sites

Client Code: SAIC00396

Project Manager: Linda Darrington

Page: 1

Sample I.D.:	0202B1
Lab I.D.:	9609088-13
Sample Matrix:	Soil
Date Collected:	09/06/96
Date Received:	09/08/96
Priority:	Routine
Collected by:	Client

Parameter

Analyte:	Qualifier	Result	Units	Method	Analyst	DateTime
Total Rec. Petro.Hydrocarbons	JB	11.3 U	mg/kg	EPA 418.1 Mod.	EAN	09/09/961100
Evaporative Loss		19	%			

FQ1 ~~FQ6~~ FP-1

MAP
1/7/98

DATA VALIDATION COPY

lot = 4

Science Applications International Corporation, An Employee-Owned Company
800 Oak Ridge, An, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO.: 600

PROJECT NAME: Fort Stewart UST Sites

PROJECT NUMBER: 0003

PROJECT MANAGER: Chris Potter

Sampler (Signature): [signature] (Printed Name): Sharon Stoller

LABORATORY NAME: GEL

LABORATORY ADDRESS: 2040 Savage Road, Charleston, SC 29417

PHONE NO:(803) 556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX, GRO	BTEX	PAH, Lead, DRO	PAH	Lead	DRO	No. of Bottles/Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
TB0008	9/6/96	0759	WATER		2					2		
1601W2	9/6/96	1500			2					2		
0101W2	9/6/96	1020			2					2		
1506W4	9/6/96	1340			2					2		
1502W2	9/6/96	1535			2					2		sample water only, not product
0202W2	9/6/96	1335			2					2		
1602W2	9/6/96	1638			2					2		
~~0101A~~ SLS 9/6/96												
~~1404~~ 4001W2	9/6/96	1135			2					2		
1501W2	9/6/96	1006			2					2		
0201W2	9/6/96	1550			2					2		
SLS 9/6/96 1602R6	9/6/96	1550		2	2					2		
3904W2	9/6/96	945			2					2		

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 84	Cooler Temperature:
[signature]	9/8/96			Cooler ID: #237	5.6
COMPANY NAME: SAIC	1310	COMPANY NAME:			
RECEIVED BY: Raymond E Reed	9/8/96	RELINQUISHED BY:	Date/Time		
COMPANY NAME: GEL	1310	COMPANY NAME:			
RELINQUISHED BY: Raymond E Reed	9/8/96	RECEIVED BY: [signature]	09-09-96		
COMPANY NAME: GEL	1630	COMPANY NAME: GEL	16:30		

6

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
0201W2

Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69090W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609090-06

Sample wt/vol: 500 (g/mL) mL Lab File ID: 2K216

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/09/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/10/96

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	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

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DATA VALIDATION
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0202W2

Name: GENERAL ENGINEERING LABOR Contract:

Lab Code: Case No.: SAS No.: SDG No.: 69090W

Matrix: (soil/water) GROUNDH2O Lab Sample ID: 9609090-05

Sample wt/vol: 500 (g/mL) mL Lab File ID: 2K215

Level: (low/med) LOW Date Received: 09/08/96

% Moisture: _____ decanted: (Y/N)___ Date Extracted:09/09/96

Concentrated Extract Volume: 0.5(mL) Date Analyzed: 09/10/96

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	10.0	U
91-58-7	2-chloronaphthalene	10.0	U
209-96-8	acenaphthylene	10.0	U
83-32-9	acenaphthene	10.0	U
86-73-7	fluorene	10.0	U
85-01-8	phenanthrene	10.0	U
120-12-7	anthracene	10.0	U
206-44-0	fluoranthene	10.0	U
129-00-0	pyrene	10.0	U
56-55-3	benzo(a)anthracene	10.0	U
218-01-9	chrysene	10.0	U
205-99-2	benzo(b)fluoranthene	10.0	U
207-08-9	benzo(k)fluoranthene	10.0	U
50-32-8	benzo(a)pyrene	10.0	U
193-39-5	indeno(1,2,3-cd)pyrene	10.0	U
53-70-3	dibenz(a,h)anthracene	10.0	U
191-24-2	benzo(g,h,i)perylene	10.0	U

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AMES H. CARR & ASSOCIATES, INC.
nvironmental Services

919 True Street ▪ P.O. Box 90209 ▪ Columbia, SC 29290
(803) 776-7789 ▪ (800) 435-3995 ▪ FAX (803) 783-2192

FINAL REPORT OF ANALYSES

ANDERSON COLUMBIA ENVIRON.,INC
P.O. Box 1386
Lake City,. FL 32056
Attn: Mr. Mike McRae

REPORT DATE: 02/08/95
PROJECT NAME- Ft.Stewart 1/30

SAMPLE ID- 8075-007-A-S

SAMPLE NUMBER- 4641
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/24/95
TIME SAMPLED- 1400
DATE RECEIVED- 01/30/95
TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- RM
SAMPLER- Diane Howell

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	87.2	%	0.01		01/31/95		
TOT. PET. HYDROCARBONS-OIL	34.2	mg/Kg	11.5	02/06/95	02/07/95	9071	
ILE ORGANIC COMPOUNDS					01/30/95	8020	
BENZENE	<1.15	ug/Kg	1.15				
TOLUENE	<1.15	ug/Kg	1.15				
CHLOROBENZENE	<1.15	ug/Kg	1.15				
M,P-XYLENES	183.	ug/Kg	2.29				
O-XYLENES	10.3	ug/Kg	1.15				
ETHYL BENZENE	21.8	ug/Kg	1.15				
1,2-DICHLOROBENZENE	<1.15	ug/Kg	1.15				
1,3-DICHLOROBENZENE	<1.15	ug/Kg	1.15				
1,4-DICHLOROBENZENE	<1.15	ug/Kg	1.15				
SURROGATE BROMOFLUOROBENZENE	85	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	94	% Recovery					

SAMPLE ID- 8075-007-B-S

SAMPLE NUMBER- 4642
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/24/95
TIME SAMPLED- 1355
DATE RECEIVED- 01/30/95
TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- RM
SAMPLER- Diane Howell

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	87.9	%	0.01		01/31/95		
TOT. PET. HYDROCARBONS-OIL	28.1	mg/Kg	11.4	02/06/95	02/07/95	9071	
ILE ORGANIC COMPOUNDS					01/30/95	8020	

CARR and ASSOCIATES

CONTINUATION OF DATA FOR SAMPLE NUMBER 4642

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
BENZENE	<1.14	ug/Kg	1.14				
TOLUENE	<1.14	ug/Kg	1.14				
CHLOROBENZENE	<1.14	ug/Kg	1.14				
M,P-XYLENES	131	ug/Kg	2.28				
O-XYLENES	<1.14	ug/Kg	1.14				
ETHYL BENZENE	12.5	ug/Kg	1.14				
1,2-DICHLOROBENZENE	<1.14	ug/Kg	1.14				
1,3-DICHLOROBENZENE	<1.14	ug/Kg	1.14				
1,4-DICHLOROBENZENE	<1.14	ug/Kg	1.14				
SURROGATE BROMOFLUOROBENZENE	79	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	89	% Recovery					

SAMPLE ID- 8075-94-A-A-S

SAMPLE NUMBER- 4643
SAMPLE MATRIX- SOIL
DATE SAMPLED- 01/25/95
TIME SAMPLED- 1145
DATE RECEIVED- 01/30/95
TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- RM
SAMPLER- Diane Howell

YSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	88.7	%	0.01		01/31/95		
TOT. PET. HYDROCARBONS-OIL	9060	mg/Kg	11.3	02/06/95	02/07/95	9071	
VOLATILE ORGANIC COMPOUNDS					01/31/95	8020	
BENZENE	496.	ug/Kg	113				100
TOLUENE	4800	ug/Kg	113				100
CHLOROBENZENE	<113	ug/Kg	113				100
M,P-XYLENES	13900	ug/Kg	225.				200
O-XYLENES	5610	ug/Kg	113				100
ETHYL BENZENE	2650	ug/Kg	113				100
1,2-DICHLOROBENZENE	496.	ug/Kg	113				100
1,3-DICHLOROBENZENE	<113	ug/Kg	113				100
1,4-DICHLOROBENZENE	<113	ug/Kg	113				100
SURROGATE BROMOFLUOROBENZENE	109	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	114	% Recovery					

CARR and ASSOCIATES

SAMPLE ID- 8075-94-A-B-S

SAMPLE NUMBER- 4644
SAMPLE MATRIX- SOIL

DATE SAMPLED- 01/25/95
TIME SAMPLED- 1150
DATE RECEIVED- 01/30/95

TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- RM
SAMPLER- Diane Howell

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	87.3	%	0.01		01/31/95		
TOT. PET. HYDROCARBONS-OIL	4720	mg/Kg	11.4	02/06/95	02/07/95	9071	
VOLATILE ORGANIC COMPOUNDS					01/31/95	8020	
BENZENE	281	ug/Kg	114.				100
TOLUENE	2550	ug/Kg	114.				100
CHLOROBENZENE	<114.	ug/Kg	114.				100
M,P-XYLENES	8040	ug/Kg	229.				200
O-XYLENES	4780	ug/Kg	114.				100
ETHYL BENZENE	1040	ug/Kg	114.				100
1,2-DICHLOROBENZENE	488	ug/Kg	114.				100
1,3-DICHLOROBENZENE	384	ug/Kg	114.				100
1,4-DICHLOROBENZENE	590	ug/Kg	114.				100
SURROGATE BROMOFLUOROBENZENE	115	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	100	% Recovery					

SCDHEC Laboratory ID 40111

LABORATORY DIRECTOR _____
James H. Carr

JAMES H. CARR & ASSOCIATES, INC.
Environmental Services

QC REPORT FOR ANDERSON COLUMBIA ENVIRON.,INC 02/08/95

QA/QC for SAMPLE Nos: 4641, 4642, 4643, 4644,

Analysis	Blank Conc.	Sample Number	Samp Type	Precision Data: Rep A	Rep B	RPD %	Accuracy Data: Samp Type	Raw Samp Conc.	Spk Add Conc.	Observed Conc.	Rec. %	Ref. Sample Data: Sample ID	Target Conc.	Found Conc.	Rec. %	Analy. Batch Number
BENZENE	< 1	4642	MS	0.0	11.7	200.00	MS	<1.0	20.0	0.0	-2.5					5306, 5306, 5306,
8020	< 1	4642					MSD	<1.0	20.0	11.7	56.0					5359, , 5306,
ug/Kg			BS	16.3	15.9	2.48	BS	0	20.0	16.3	81.5					, 5306, 5306,
			BS	17.9	18.3	2.21	BSD	0	20.0	15.9	79.5					, 5359, 5306,
							BS	0	20.0	17.9	89.5					, , 5359,
							BSD	0	20.0	18.3	91.5					, , 5359,
TOLUENE	< 1	4642	MS	0.0	11.3	200.00	MS	<1.0	20.0	0.0	-2.5					5306, 5306, 5306,
8020	< 1	4642					MSD	<1.0	20.0	11.3	54.0					5359, , 5306,
ug/Kg			BS	16.3	16.1	1.23	BS	0	20.0	16.3	81.5					, 5306, 5306,
			BS	18.4	18.4	0.00	BSD	0	20.0	16.1	80.5					, 5359, 5306,
							BS	0	20.0	18.4	92.0					, , 5359,
							BSD	0	20.0	18.4	92.0					, , 5359,
CHLOROBENZENE	< 1	4642	MS	0.0	10.9	200.00	MS	<1.0	20.0	0.0	-2.5					5306, 5306, 5306,
8020	< 1	4642					MSD	<1.0	20.0	10.9	52.0					5359, , 5306,
ug/Kg			BS	17.4	16.4	5.92	BS	0	20.0	17.4	87.0					, 5306, 5306,
			BS	18.6	18.9	1.60	BSD	0	20.0	16.4	82.0					, 5359, 5306,
							BS	0	20.0	18.6	93.0					, , 5359,
							BSD	0	20.0	18.9	94.5					, , 5359,

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Environmental Services

QC REPORT FOR ANDERSON COLUMBIA ENVIRON.,INC 02/08/95

QA/QC for SAMPLE Nos: 4641, 4642, 4643, 4644,

Analysis	Blank Conc.	Sample Number	Samp Type	Precision Data: Rep A	Rep B	RPD %	Accuracy Data: Samp Type	Raw Samp Conc.	Spk Add Conc.	Observed Conc.	Rec. %	Ref. Sample Data: Sample ID	Target Conc.	Found Conc.	Rec. %	Analy. Batch Number
M,P-XYLENES	< 2	4642	MS	0.0	29.1	200.00	MS	57.6	40.0	0.0	-144.0					
8020	< 2	4642					MSD	57.6	40.0	86.7	72.8					5306, 5306, 5306,
ug/Kg			BS	33.5	32.1	4.27	BS	0	40.0	33.5	83.8					5359, , 5306,
			BS	40.5	38.7	4.55	BSD	0	40.0	32.1	80.3					, 5306, 5306,
							BS	0	40.0	40.5	101.3					, 5359, 5306,
							BSD	0	40.0	38.7	96.8					, , 5359,
																, , 5359,
O-XYLENES	< 1	4642	MS	0.0	16.1	200.00	MS	<1.0	20.0	0.0	-2.5					
8020	< 1	4642					MSD	<1.0	20.0	16.1	78.0					5306, 5306, 5306,
ug/Kg			BS	18.3	18.0	1.65	BS	0	20.0	18.3	91.5					5359, , 5306,
			BS	19.3	19.1	1.04	BSD	0	20.0	18.0	90.0					, 5306, 5306,
							BS	0	20.0	19.3	96.5					, 5359, 5306,
							BSD	0	20.0	19.1	95.5					, , 5359,
																, , 5359,
ETHYL BENZENE	< 1	4642	MS	0.0	11.7	200.00	MS	5.3	20.0	0.0	-26.5					
8020	< 1	4642					MSD	5.3	20.0	17.0	58.5					5306, 5306, 5306,
ug/Kg			BS	16.6	15.7	5.57	BS	0	20.0	16.6	83.0					5359, , 5306,
			BS	20.5	19.7	3.98	BSD	0	20.0	15.7	78.5					, 5306, 5306,
							BS	0	20.0	20.5	102.5					, 5359, 5306,
							BSD	0	20.0	19.7	98.5					, , 5359,
																, , 5359,

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QC REPORT FOR ANDERSON COLUMBIA ENVIRON.,INC 02/08/95

QA/QC for SAMPLE Nos: 4641, 4642, 4643, 4644,

				Precision Data			Accuracy Data					Ref. Sample Data				
Analysis	Blank Conc.	Sample Number	Samp Type	Rep A	Rep B	RPD %	Samp Type	Raw Samp Conc.	Spk Add Conc.	Observed Conc.	Rec. %	Sample ID	Target Conc.	Found Conc.	Rec. %	Analy. Batch Number
1,2-DICHLOROBENZEN	< 1	4642	MS	0.0	10.4	200.00	MS	<1.0	20.0	0.0	-2.5					5306, 5306, 5306,
E	< 1	4642					MSD	<1.0	20.0	10.4	49.5					5359, , 5306,
8020			BS	20.1	19.5	3.03	BS	0	20.0	20.1	100.5					, 5306, 5306,
ug/Kg			BS	21.6	22.5	4.08	BSD	0	20.0	19.5	97.5					, 5359, 5306,
							BS	0	20.0	21.6	108.0					, , 5359,
							BSD	0	20.0	22.5	112.5					, , 5359,
1,3-DICHLOROBENZEN	< 1	4642	MS	0.0	10.3	200.00	MS	<1.0	20.0	0.0	-2.5					5306, 5306, 5306,
E	< 1	4642					MSD	<1.0	20.0	10.3	49.0					5359, , 5306,
8020			BS	20.1	19.4	3.54	BS	0	20.0	20.1	100.5					, 5306, 5306,
ug/Kg			BS	22.0	22.5	2.25	BSD	0	20.0	19.4	97.0					, 5359, 5306,
							BS	0	20.0	22.0	110.0					, , 5359,
							BSD	0	20.0	22.5	112.5					, , 5359,
1,4-DICHLOROBENZEN	< 1	4642	MS	0.0	10.9	200.00	MS	<1.0	20.0	0.0	-2.5					5306, 5306, 5306,
E	< 1	4642					MSD	<1.0	20.0	10.9	52.0					5359, , 5306,
8020			BS	20.3	19.7	3.00	BS	0	20.0	20.3	101.5					, 5306, 5306,
ug/Kg			BS	22.4	22.9	2.21	BSD	0	20.0	19.7	98.5					, 5359, 5306,
							BS	0	20.0	22.4	112.0					, , 5359,
							BSD	0	20.0	22.9	114.5					, , 5359,

JAMES H. CARR & ASSOCIATES, INC.
Environmental Services

QC REPORT FOR ANDERSON COLUMBIA ENVIRON.,INC 02/08/95

QA/QC for SAMPLE Nos: 4641, 4642, 4643, 4644,

				Precision Data			Accuracy Data					Ref. Sample Data				
Analysis	Blank Conc.	Sample Number	Samp Type	Rep A	Rep B	RPD %	Samp Type	Raw Samp Conc.	Spk Add Conc.	Observed Conc.	Rec. %	Sample ID	Target Conc.	Found Conc.	Rec. %	Analy. Batch Number
SURROGATE		4642					MS	0	30.0	0.0	0.0					
BROMOFLUOROBENZENE		4642					MSD	0	30.0	16.7	55.7					, , 5306,
8020							B	0	30.0	26.3	87.7					, , 5306,
% Recovery							BS	0	30.0	27.6	92.0					, , 5306,
							BSD	0	30.0	26.6	88.7					, , 5306,
							B	0	30.0	31.3	104.3					, , 5359,
							BS	0	30.0	30.3	101.0					, , 5359,
							BSD	0	30.0	30.8	102.7					, , 5359,
SURROGATE aaa-TRIF		4642					MS	0	30.0	0.0	0.0					
LUOROTOLUENE		4642					MSD	0	30.0	17.8	59.3					, , 5306,
8020							B	0	30.0	28.2	94.0					, , 5306,
% Recovery							BS	0	30.0	26.8	89.3					, , 5306,
							BSD	0	30.0	25.8	86.0					, , 5306,
							B	0	30.0	33.7	112.3					, , 5359,
							BS	0	30.0	30.3	101.0					, , 5359,
							BSD	0	30.0	29.5	98.3					, , 5359,

1040

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

Page___of____

Project No.	Project Name
8075	Ft. STEWART 44

Samplers (Signature): T.D.H Diane Howell

Sample Number	Date	Time	Grab	Comp.	Sample Location	No. of Containers	Preservative	8020	9071	Remarks:
8075-007-A-S	1/24/95	2:00 P.M.	✓		Soil	1	UN	✓	✓	4641
8075-007-B-S	1/24/95	1:55 P.M.	✓		Soil	1	UN	✓	✓	4642
8075-94-A-A-S	1/25/95	11:45 A.M.	✓		Soil	1	UN	✓	✓	4643
8075-94-A-B-S	1/25/95	11:50 A.M.	✓		Soil	1	UN	✓	✓	4644
TEMP BLAI	1/25/95				H2O	1	UN			= 20.1°C, ice melted
										NO C.O.C. seals

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Diane Howell	1/26/95 9:00 A.M.	Greyhound			
Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Remarks:
Relinquished by: Greyhound	Date / Time 1-30-95/1000	Received by: R. Motte			

Excavation of Contaminated Soil and Supporting Manifests

Anderson Columbia (ACE) did not maintain accurate records from individual UST removals prior to 1996. Therefore, the Installation cannot confirm whether or not soil was removed from these sites. Conversations with ACE personnel who were on-site during tank removal activities support the claim that soil was NOT excavated at these sites.

NOTE: All contaminated soil removed during the **entire** project (i.e., all 43 USTs removed under contract with ACE, to include clean and non-clean closures) was tested and transported to Kedesh, Inc., Highway 84, Ludowici, GA 31316. The Installation has records of all manifests and weight tickets for this project. However, site/UST specific information is not available.