CLOSURE REPORT

Waste Oil Tanks
Building 4502, Tanks #217, #218, #219
Facility ID #: 9-089060 #3

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

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, 3d 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.

RESUBMITTED: Thomas C. Fry DATE: 03/03/99
Signature: ORIGINAL SIGNED Date: 16 September 1997

2. UST System Site Location:

Facility Name: FT STEWART/ FAC 4502
Street Address: Bldg 4502
Fort Stewart (city) GA (state) 31314-5000 (zip code)
Facility ID#: 9-089060 *3

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: 9/11/97

4. Site-specific Hydrogeology:

Depth to Groundwater: 2.54 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: Tank #217: 2/21/95; Tank #218: 5/31/95; Tank #219: 5/31/95
- Tank Information:

Tank #	Tank Size (gallons)	Tank Contents
217	1,000	Used Oil
218	1,000	Used Oil
219	1,000	Used Oil

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

- Attach Amended Notification Form 7530-1 (SEE TAB 6)
- 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: Mill Creek
Distance to closest surface water body: _____ mile(s) or 1750 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.

Georgia Department of Natural Resources
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4244 International Parkway, Suite 104, Atlanta, Georgia 30354
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1. Owner of UST System:
   - Name: Department of the Army
   - Phone Number: (912) 767-1234/2010
   - Company: US ARMY
   - Address: HQ, 3d 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: John H. Spears Date: 9/12/97

2. UST System Site Location:
   - Facility Name: FT STEWART/ FAC 4502
   - Street Address: Bldg 4502
     Fort Stewart (city) GA (state) 31314-5000 (zip code)
   - Facility ID#: 9-089060

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: 9/11/97

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
John H. Spears	9/12/97
Owner's Signature	Date

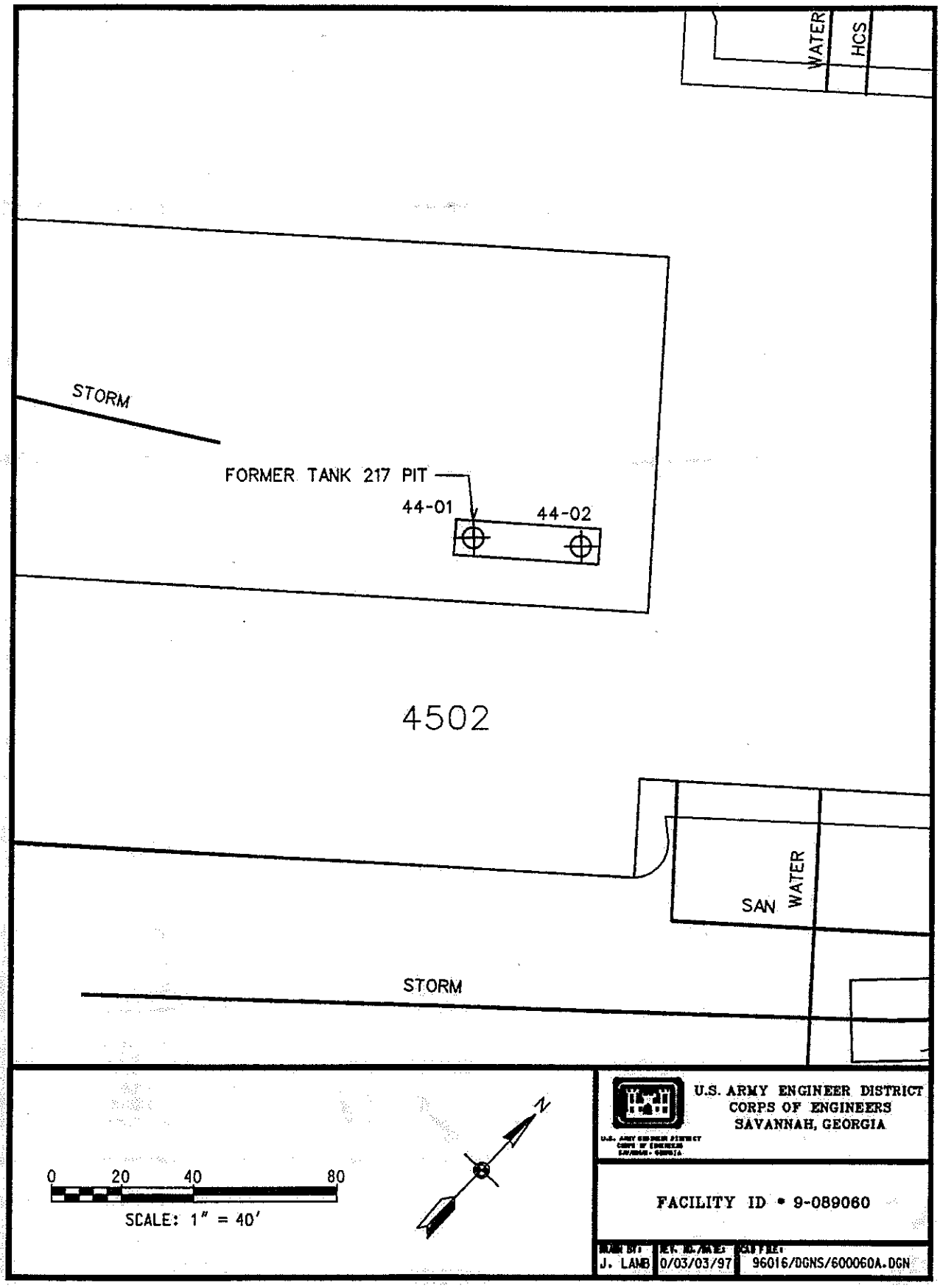
INFORMATION ON MAPS

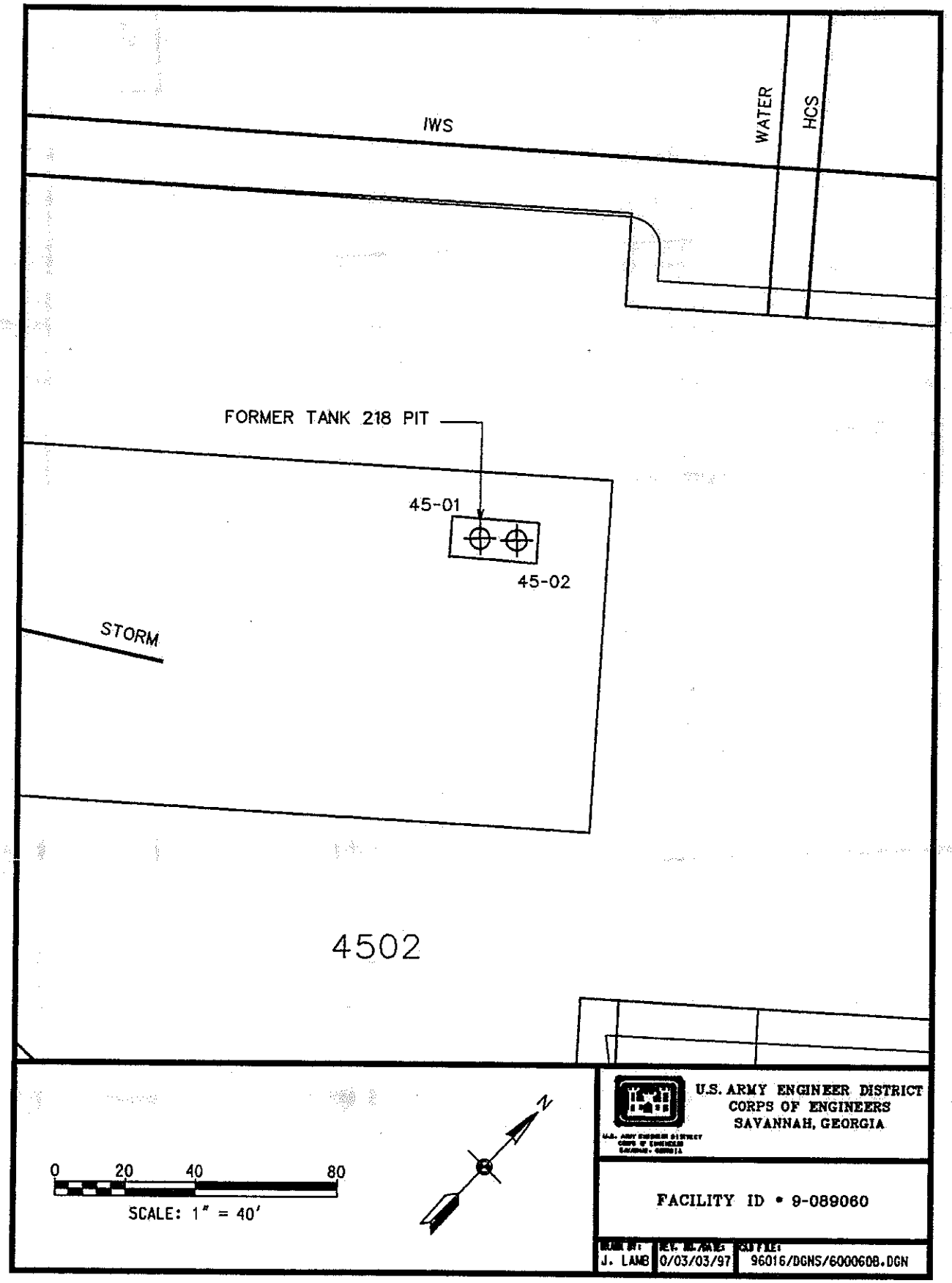
MAPS #1a - #1c: Provided to Installation by SAIC after groundwater investigation

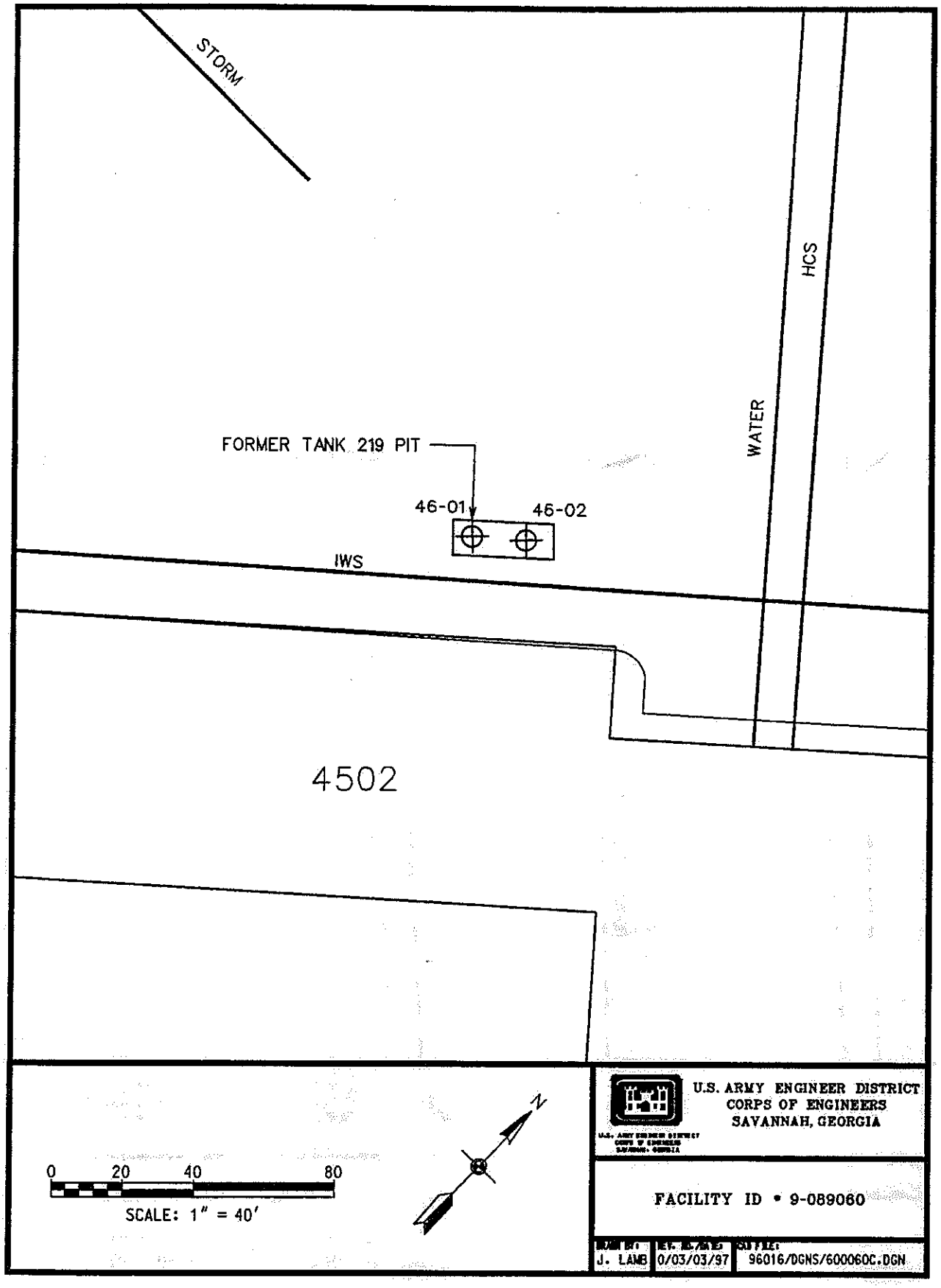
MAPS #2a and #2b: Contained in Installation Archives and representative of as-built drawing for a typical 2500 gallon waste oil tank installed at Bldg 4502; USTs actually installed were 1000 gallon waste oil tanks, but should be assumed to follow as-builts.

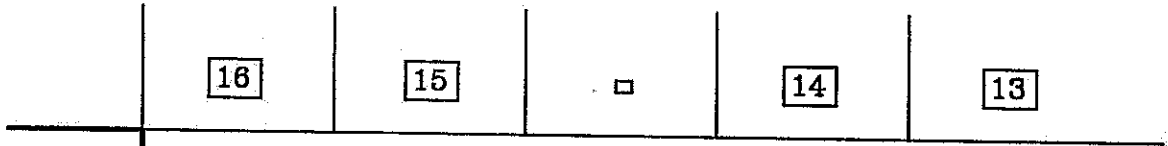
MAP #3a and #3b: Provided to Installation by ACE after removal of UST (Not to Scale)

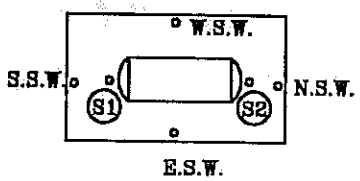
NOTE: These USTs were used for storage of waste oil and DID NOT have dispensers. A tank removal site map for Tank #217 could not be located in the Field Report submitted by Anderson Columbia, as discussed with GA EPD during the August 13, 1997 site visit.


WATER
HCS
STORM
FORMER TANK 217 PIT
44-01
44-02
4502
SAN
WATER
STORM
0
20
40
80
SCALE: 1" = 40'
N
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA
FACILITY ID • 9-089060
J. LAMB
0/03/03/97
96016/DGNS/600060A.DGN


IWS
WATER
HCS
FORMER TANK 218 PIT
45-01
45-02
STORM
4502
0
20
40
80
SCALE: 1" = 40'
N
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA
FACILITY ID • 9-089060
J. LAMB
0/03/03/97
96016/DGNS/6000608.DGN


STORM
HCS
WATER
FORMER TANK 219 PIT
46-01
46-02
IWS
4502
0
20
40
80
SCALE: 1" = 40'
N
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
SAVANNAH, GEORGIA
FACILITY ID • 9-089060
J. LAMB
0/03/03/97
96016/DGNS/600060C.DGN

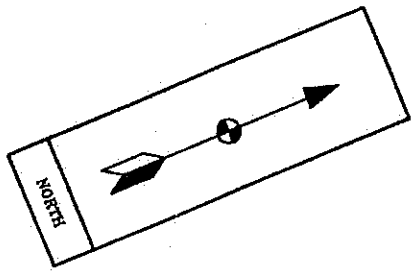




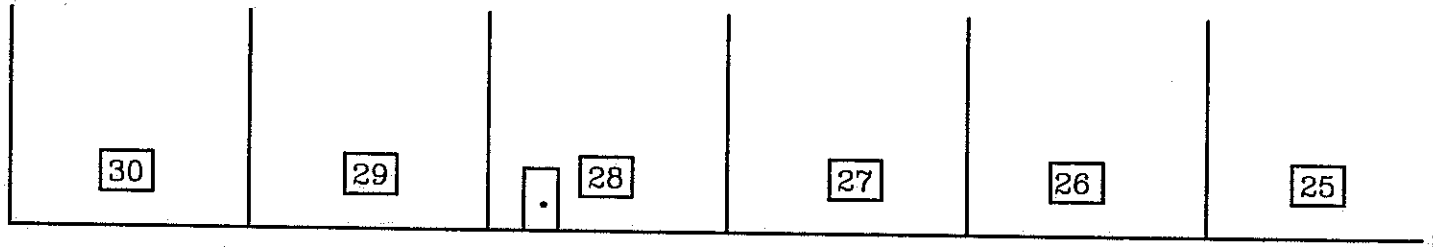
TANK #218 – WASTE OIL

BLDG. #4502

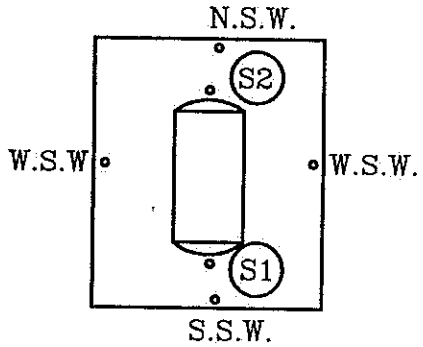
CONCRETE AREA



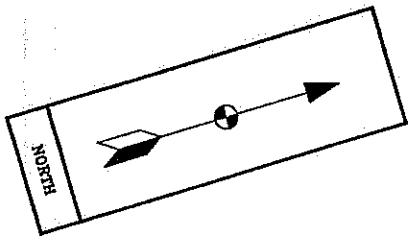
LEGEND/REF. DRWG.'S	ANDERSON COLUMBIA ENVIRONMENTAL, INC. P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1186	JOB #8084 – FT. STEWART
TANK SIZE: 2,000 GAL. U.S.T. TANK PIT DIMENSIONS: 18'–6" WIDTH, 23' LENGTH, 10' DEPTH	DR. N.A.M. CH'D _____ DR. APP. _____ ENGR. _____ ENGR.'S DEPT. _____ DATE 1–24–96 SCALE N.T.S.	BLDG. #4502 TANK #218 ; Fac ID# 9-089060 DRAWING NO.: 17



TANK #219



CONCRETE AREA



LEGEND/REF. DRWG.'S	ANDERSON COLUMBIA ENVIRONMENTAL, INC. P.O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1196	FT. STEWART BLDG. #4502 TANK #219 Fac ID# 9-089060
1000 gal Waste Oil	DR. N.A.M. CH'D ____ DR. APP. ____ ENGR. ____ ENGR.'S DEPT. ____ DATE 1-7-96 SCALE N.T.S. = 10'	DRAWING NO.: 18

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

state use only

Part I: Facility Data

ACILITY ID NUMBER: 9-089060

NER'S ID: 197

ITIAL DATE RECEIVED: 12-18-1992

ATE AMENDED LAST:

OTIFICATION TYPE: [ ] New [X] Amended [X] Closure

5 OF 6 TANKS CLOSED

NERSHIP OF TANK(S): NUMBER OF TANK(S): 6

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
ne: (912) 767-1071 County: LIBERTY

CATION OF TANK(S):

Name : FT STEWART/FAC 4502
Street Address: FAC 4502
City : FT STEWART State : GA Zip Code : 31314-5000
County: LIBERTY Latitude: : : Longitude: : :
Phone : (912) 767-1071

WNER TYPE: [X] Federal [ ] State [ ] Local [ ] Commercial [ ] Private

FACILITY TYPE(S):

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

CONTACT PERSON IN CHARGE OF TANK(S):

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

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089060	9-089060	9-089060	9-089060	9-089060
TANK ID	216	217	[illegible]	219	220
Status of Tank					
Currently In Use	X		X	X	
Temp. Out of Use		X	X	X	X
Perm. Out of Use					
Date of Installation	01-01-1985	01-01-1985	01-01-1985	01-01-1985	01-01-1985
Age	10	10	10	10	10
Est. Total Capacity	1,000	1,000	1,000	1,000	5,000
Material of Construction					
Asphalt or Bare Steel					
Cath. Protected Steel					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.	X	X	X	X	X
Lined Interior					
Double Walled	X	X	X	X	X
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, explanation					
Date Tank Repaired					
Piping Material					
Bare Steel					
Galvanized Steel	X	X	X	X	X
Fiberglass					
Copper					
Cathodically Protected					
Double Walled	X	X	X	X	X
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	X	X	X
Unleaded					
Empty					
Other, explanation					

STATE OF GEORGIA

NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

Hazardous Substance											
CERCLA Name											
CAS Number											
Mixture											
Mixture Specification											
Use/Change Service	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	
Est. Date Last Used			08-94		04-95		04-95		08-94		
Est. Date Closed Removed from Ground			02-21-95		5-31-95		5-31-95		4-19-95		
Closed in Ground			2-21-95		5-31-95		5-31-95				
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											
Allowed Method											
Method Description											
Release Detection	Tank	Piping	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											
Fill 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.

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.

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 tanks and from the sidewalls of the respective tank pits (i.e., six (6) samples). 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.

CLOSURE REPORT
USTs #217-218, FACILITY ID. NO. 9-089060*3

CLOSURE OF PIPING
TAB 6

The undersigned certifies that the piping associated with former Tanks #217-218, Building 4502, Facility Identification Number 9-089060*3, 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.

Name: Thomas C. Fry Title: Acting Chief, Environmental & Natural Division

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

LABORATORY ANALYTICAL RESULTS

Analytical results for USTs #217, #218 and #219 with the corresponding data validation and chain of custody are provided for your use and convenience. The analytical results from the groundwater investigation (Fall 1996) is followed by the analytical results from the UST removals (February and May 1995). However, the tank removal data for Tank #217 could not be located in the Field Report submitted by Anderson Columbia. This issue was discussed with GA EPD on August 13, 1997 during a site visit to Fort Stewart. GA EPD recommended submitting the report, and indicating on the cover letter that only the groundwater investigation data is available for Tank #217. All contaminants detected above their respective detection limits have been highlighted.

NOTE: Maps #1a-#1c, included in Tab 5, indicate sampling locations for the groundwater investigation. Maps #3a and #3b, also included in Tab 5, indicate sampling locations from the tank removal.

Investigation: 44					
	Station	44-01	44-01	44-02	44-02
	Sample ID	4401A1	4401B1	4402B1	4402D1
	Date Collected	9/8/96	9/8/96	9/8/96	9/8/96
	Depth	1.0 - 2.5 FT	2.5 - 5.0 FT	2.5 - 5.0 FT	7.5 - 10.0 FT
	GDNR Level				
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Acenaphthene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Acenaphthylene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Anthracene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Benzo(a)anthracene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Benzo(a)pyrene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Benzo(b)fluoranthene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Benzo(g,h,i)perylene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Benzo(k)fluoranthene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Chrysene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Dibenzo(a,h)anthracene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Fluoranthene	NA	0.36 U	0.366 U	0.0765 J	0.379 U
Fluorene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Indeno(1,2,3-cd)pyrene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Naphthalene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Phenanthrene	NA	0.36 U	0.366 U	0.398 U	0.379 U
Pyrene	NA	0.36 U	0.366 U	0.0474 J	0.379 U
	GDNR Level				
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	134 =	14 U	26.6 U	29.9 =
	GDNR Level				
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0054 U	0.0056 U	0.006 U	0.0057 U
Ethylbenzene	10	0.0054 U	0.0056 U	0.006 U	0.0057 U
Toluene	6	0.0054 U	0.016 J	0.0086 =	0.0057 U
Xylenes, Total	700	0.0054 U	0.0056 U	0.006 U	0.0057 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 #9-089060, UST 217, Site Investigation

Investigation: 45

	Station	45-01	45-02
	Sample ID	4501A1	4502A1
	Date Collected	9/8/96	9/8/96
	Depth	1.0 - 2.5 FT	1.0 - 2.5 FT
	GDNR Level		
Polynuclear Aromatic Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
2-Chloronaphthalene	NA	0.364 U	0.376 U
Acenaphthene	NA	0.364 U	0.376 U
Acenaphthylene	NA	0.364 U	0.376 U
Anthracene	NA	0.364 U	0.376 U
Benzo(a)anthracene	NA	0.364 U	0.376 U
Benzo(a)pyrene	NA	0.364 U	0.376 U
Benzo(b)fluoranthene	NA	0.364 U	0.376 U
Benzo(g,h,i)perylene	NA	0.364 U	0.376 U
Benzo(k)fluoranthene	NA	0.364 U	0.376 U
Chrysene	NA	0.364 U	0.376 U
Dibenzo(a,h)anthracene	NA	0.364 U	0.376 U
Fluoranthene	NA	0.364 U	0.376 U
Fluorene	NA	0.364 U	0.376 U
Indeno(1,2,3-cd)pyrene	NA	0.364 U	0.376 U
Naphthalene	NA	0.364 U	0.376 U
Phenanthrene	NA	0.364 U	0.376 U
Pyrene	NA	0.364 U	0.376 U
	GDNR Level		
Petroleum Hydrocarbons	**MG/KG**	**MG/KG**	**MG/KG**
Total Petroleum Hydrocarbons	NRC	23.2 U	32.1 U
	GDNR Level		
Volatile Organics	**MG/KG**	**MG/KG**	**MG/KG**
Benzene	0.008	0.0055 U	0.0057 U
Ethylbenzene	10	0.0055 U	0.0057 U
Toluene	6	0.0076 =	0.011 =
Xylenes, Total	700	0.0057 =	0.0057 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.

CONTINUATION OF DATA FOR SAMPLE NUMBER 7378

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
SURROGATE BROMOFLUOROBENZENE	91.1	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	86.6	% Recovery					
MTBE	<5.54	ug/Kg	5.54				
DIPE	<5.54	ug/Kg	5.54				
POLYNUCLEAR AROMATIC HYDROCARB				06/14/95	06/22/95	8100	
NAPHTHALENE	<732	ug/Kg	732				
ACENAPHTHYLENE	<732	ug/Kg	732				
ACENAPHTHENE	<732	ug/Kg	732				
FLUORENE	<732	ug/Kg	732				
PHENANTHRENE	<732	ug/Kg	732				
ANTHRACENE	<732	ug/Kg	732				
FLUORANTHENE	<732	ug/Kg	732				
PYRENE	<732	ug/Kg	732				
BENZO(A)ANTHRACENE	<732	ug/Kg	732				
CHRYSENE	<732	ug/Kg	732				
BENZO(B)FLUORANTHENE	<732	ug/Kg	732				
BENZO(K)FLUORANTHENE	<732	ug/Kg	732				
NZO(A)PYRENE	<732	ug/Kg	732				
DENO(1,2,3-CD)PYRENE	<732	ug/Kg	732				
BENZ(A,H)ANTHRACENE	<732	ug/Kg	732				
BENZO(G,H,I)PERYLENE	<732	ug/Kg	732				
SURROGATE 2-FLUOROBIPHENYL	34.0	% Recovery					
SURROGATE O-TERPHENYL	54.0	% Recovery					

Sample being reextracted because of low surrogates for 8100.

SAMPLE ID- 218-T1-S1 **TIME RECEIVED- 1000**
LOCATION- Tank Pit **DATE SAMPLED- 05/31/95** **DELIVERED BY- Greyhound**
SAMPLE NUMBER- 7379 **TIME SAMPLED- 1100** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 06/02/95** **SAMPLER- Lamar L. Kennedy**

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	91.2	%	0.01		06/08/95		
TOT. PET. HYDROCARBONS-OIL	91.7	mg/Kg	11.0	06/08/95	06/13/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.10	ug/Kg	1.10				
TOLUENE	<1.10	ug/Kg	1.10				
CHLOROBENZENE	<1.10	ug/Kg	1.10				

CONTINUATION OF DATA FOR SAMPLE NUMBER 7379

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
M,P-XYLENES	<1.10	ug/Kg	1.10				
O-XYLENES	<1.10	ug/Kg	1.10				
ETHYL BENZENE	<1.10	ug/Kg	1.10				
1,2-DICHLOROBENZENE	<1.10	ug/Kg	1.10				
1,3-DICHLOROBENZENE	<1.10	ug/Kg	1.10				
1,4-DICHLOROBENZENE	<1.10	ug/Kg	1.10				
SURROGATE BROMOFLUOROBENZENE	92.7	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	84.9	% Recovery					
MTBE	<5.48	ug/Kg	5.48				
DIPE	<5.48	ug/Kg	5.48				
POLYNUCLEAR AROMATIC HYDROCARB				06/14/95	06/22/95	8100	
NAPHTHALENE	<724	ug/Kg	724				
ACENAPHTHYLENE	<724	ug/Kg	724				
ACENAPHTHENE	<724	ug/Kg	724				
FLUORENE	<724	ug/Kg	724				
PHENANTHRENE	<724	ug/Kg	724				
ANTHRACENE	<724	ug/Kg	724				
UORANTHENE	<724	ug/Kg	724				
RENE	<724	ug/Kg	724				
NZO(A)ANTHRACENE	<724	ug/Kg	724				
CHRYSENE	<724	ug/Kg	724				
BENZO(B)FLUORANTHENE	<724	ug/Kg	724				
BENZO(K)FLUORANTHENE	<724	ug/Kg	724				
BENZO(A)PYRENE	<724	ug/Kg	724				
INDENO(1,2,3-CD)PYRENE	<724	ug/Kg	724				
DIBENZ(A,H)ANTHRACENE	<724	ug/Kg	724				
BENZO(G,H,I)PERYLENE	<724	ug/Kg	724				
SURROGATE 2-FLUOROBIPHENYL	10.0	% Recovery					
SURROGATE O-TERPHENYL	11.0	% Recovery					

Sample is being reextracted because of low surrogates for 8100.

SAMPLE ID- 218-T1-S2
LOCATION- Tank Pit
SAMPLE NUMBER- 7380
SAMPLE MATRIX- SOIL
DATE SAMPLED- 05/31/95
TIME SAMPLED- 1110
DATE RECEIVED- 06/02/95
TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- DH
SAMPLER- Lamar L. Kennedy

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
SOLIDS	89.9	%	0.01		06/08/95		

CONTINUATION OF DATA FOR SAMPLE NUMBER 7380

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
TOT. PET. HYDROCARBONS-OIL	186	mg/Kg	11.1	06/08/95	06/13/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.11	ug/Kg	1.11				
TOLUENE	<1.11	ug/Kg	1.11				
CHLOROBENZENE	<1.11	ug/Kg	1.11				
M,P-XYLENES	<1.11	ug/Kg	1.11				
O-XYLENES	<1.11	ug/Kg	1.11				
ETHYL BENZENE	<1.11	ug/Kg	1.11				
1,2-DICHLOROBENZENE	<1.11	ug/Kg	1.11				
1,3-DICHLOROBENZENE	<1.11	ug/Kg	1.11				
1,4-DICHLOROBENZENE	<1.11	ug/Kg	1.11				
SURROGATE BROMOFLUOROBENZENE	107	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	87.8	% Recovery					
MTBE	<5.56	ug/Kg	5.56				
DIPE	<5.56	ug/Kg	5.56				
POLYNUCLEAR AROMATIC HYDROCARB				06/14/95	06/22/95	8100	
APHTHALENE	<734.	ug/Kg	734.				
ENAPHTHYLENE	<734.	ug/Kg	734.				
ENAPHTHENE	<734.	ug/Kg	734.				
FLUORENE	<734.	ug/Kg	734.				
PHENANTHRENE	<734.	ug/Kg	734.				
ANTHRACENE	<734.	ug/Kg	734.				
FLUORANTHENE	<734.	ug/Kg	734.				
PYRENE	<734.	ug/Kg	734.				
BENZO(A)ANTHRACENE	<734.	ug/Kg	734.				
CHRYSENE	<734.	ug/Kg	734.				
BENZO(B)FLUORANTHENE	<734.	ug/Kg	734.				
BENZO(K)FLUORANTHENE	<734.	ug/Kg	734.				
BENZO(A)PYRENE	<734.	ug/Kg	734.				
INDENO(1,2,3-CD)PYRENE	<734.	ug/Kg	734.				
DIBENZ(A,H)ANTHRACENE	<734.	ug/Kg	734.				
BENZO(G,H,I)PERYLENE	<734.	ug/Kg	734.				
SURROGATE 2-FLUOROBIPHENYL	95.0	% Recovery					
SURROGATE O-TERPHENYL	107	% Recovery					

CARR and ASSOCIATES

SAMPLE ID- 218-E.S.W.
LOCATION- Tank Pit
SAMPLE NUMBER- 7381
SAMPLE MATRIX- SOIL

DATE SAMPLED- 05/31/95
TIME SAMPLED- 1115
DATE RECEIVED- 06/02/95

TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- DH
SAMPLER- Lamar L. Kennedy

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	87.9	%	0.01		06/08/95		
TOT. PET. HYDROCARBONS-OIL	118.	mg/Kg	11.4	06/12/95	06/14/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.14	ug/Kg	1.14				
TOLUENE	<1.14	ug/Kg	1.14				
CHLOROBENZENE	<1.14	ug/Kg	1.14				
M,P-XYLENES	<1.14	ug/Kg	1.14				
O-XYLENES	<1.14	ug/Kg	1.14				
ETHYL BENZENE	<1.14	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	94.5	% Recovery					
URROGATE aaa-TRIFLUOROTOLUENE	78.6	% Recovery					
BE	<5.69	ug/Kg	5.69				
PE	<5.69	ug/Kg	5.69				
POLYNUCLEAR AROMATIC HYDROCARB				06/14/95	06/22/95	8100	
NAPHTHALENE	<751	ug/Kg	751				
ACENAPHTHYLENE	<751	ug/Kg	751				
ACENAPHTHENE	<751	ug/Kg	751				
FLUORENE	<751	ug/Kg	751				
PHENANTHRENE	<751	ug/Kg	751				
ANTHRACENE	<751	ug/Kg	751				
FLUORANTHENE	<751	ug/Kg	751				
PYRENE	<751	ug/Kg	751				
BENZO(A)ANTHRACENE	<751	ug/Kg	751				
CHRYSENE	<751	ug/Kg	751				
BENZO(B)FLUORANTHENE	<751	ug/Kg	751				
BENZO(K)FLUORANTHENE	<751	ug/Kg	751				
BENZO(A)PYRENE	<751	ug/Kg	751				
INDENO(1,2,3-CD)PYRENE	<751	ug/Kg	751				
DIBENZ(A,H)ANTHRACENE	<751	ug/Kg	751				
BENZO(G,H,I)PERYLENE	<751	ug/Kg	751				
SURROGATE 2-FLUOROBIPHENYL	93.0	% Recovery					
SURROGATE O-TERPHENYL	122	% Recovery					

SAMPLE ID- 218-W.S.W.
LOCATION- Tank Pit
SAMPLE NUMBER- 7382
SAMPLE MATRIX- SOIL

DATE SAMPLED- 05/31/95
TIME SAMPLED- 1120
DATE RECEIVED- 06/02/95

TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- DH
SAMPLER- Lamar L. Kennedy

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	92.1	%	0.01		06/08/95		
TOT. PET. HYDROCARBONS-OIL	113	mg/Kg	10.8	06/12/95	06/14/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.08	ug/Kg	1.08				
TOLUENE	<1.08	ug/Kg	1.08				
CHLOROBENZENE	<1.08	ug/Kg	1.08				
M,P-XYLENES	<1.08	ug/Kg	1.08				
O-XYLENES	<1.08	ug/Kg	1.08				
ETHYL BENZENE	<1.08	ug/Kg	1.08				
1,2-DICHLOROBENZENE	<1.08	ug/Kg	1.08				
1,3-DICHLOROBENZENE	<1.08	ug/Kg	1.08				
1,4-DICHLOROBENZENE	<1.08	ug/Kg	1.08				
SURROGATE BROMOFLUOROBENZENE	94.0	% Recovery					
URROGATE aaa-TRIFLUOROTOLUENE	82.3	% Recovery					
BE	<5.43	ug/Kg	5.43				
PE	<5.43	ug/Kg	5.43				
POLYNUCLEAR AROMATIC HYDROCARB				06/14/95	06/22/95	8100	
NAPHTHALENE	<717	ug/Kg	717				
ACENAPHTHYLENE	<717	ug/Kg	717				
ACENAPHTHENE	<717	ug/Kg	717				
FLUORENE	<717	ug/Kg	717				
PHENANTHRENE	<717	ug/Kg	717				
ANTHRACENE	<717	ug/Kg	717				
FLUORANTHENE	<717	ug/Kg	717				
PYRENE	<717	ug/Kg	717				
BENZO(A)ANTHRACENE	<717	ug/Kg	717				
CHRYSENE	<717	ug/Kg	717				
BENZO(B)FLUORANTHENE	<717	ug/Kg	717				
BENZO(K)FLUORANTHENE	<717	ug/Kg	717				
BENZO(A)PYRENE	<717	ug/Kg	717				
INDENO(1,2,3-CD)PYRENE	<717	ug/Kg	717				
DIBENZ(A,H)ANTHRACENE	<717	ug/Kg	717				
BENZO(G,H,I)PERYLENE	<717	ug/Kg	717				
SURROGATE 2-FLUOROBIPHENYL	92.0	% Recovery					
SURROGATE O-TERPHENYL	108	% Recovery					

CARR and ASSOCIATES

SAMPLE ID- 218-S.S.W.
LOCATION- Tank Pit
SAMPLE NUMBER- 7383
SAMPLE MATRIX- SOIL

DATE SAMPLED- 05/31/95
TIME SAMPLED- 1130
DATE RECEIVED- 06/02/95

TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- DH
SAMPLER- Lamar L. Kennedy

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	84.8	%	0.01		06/08/95		
TOT. PET. HYDROCARBONS-OIL	218.	mg/Kg	11.8	06/12/95	06/14/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.18	ug/Kg	1.18				
TOLUENE	<1.18	ug/Kg	1.18				
CHLOROBENZENE	<1.18	ug/Kg	1.18				
M,P-XYLENES	<1.18	ug/Kg	1.18				
O-XYLENES	<1.18	ug/Kg	1.18				
ETHYL BENZENE	<1.18	ug/Kg	1.18				
1,2-DICHLOROBENZENE	<1.18	ug/Kg	1.18				
1,3-DICHLOROBENZENE	<1.18	ug/Kg	1.18				
1,4-DICHLOROBENZENE	<1.18	ug/Kg	1.18				
SURROGATE BROMOFLUOROBENZENE	99.1	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	79.7	% Recovery					
MTBE	<5.90	ug/Kg	5.90				
DIPE	<5.90	ug/Kg	5.90				
POLYNUCLEAR AROMATIC HYDROCARB				06/14/95	06/22/95	8100	
NAPHTHALENE	<778.	ug/Kg	778.				
ACENAPHTHYLENE	<778.	ug/Kg	778.				
ACENAPHTHENE	<778.	ug/Kg	778.				
FLUORENE	<778.	ug/Kg	778.				
PHENANTHRENE	<778.	ug/Kg	778.				
ANTHRACENE	<778.	ug/Kg	778.				
FLUORANTHENE	<778.	ug/Kg	778.				
PYRENE	<778.	ug/Kg	778.				
BENZO(A)ANTHRACENE	<778.	ug/Kg	778.				
CHRYSENE	<778.	ug/Kg	778.				
BENZO(B)FLUORANTHENE	<778.	ug/Kg	778.				
BENZO(K)FLUORANTHENE	<778.	ug/Kg	778.				
BENZO(A)PYRENE	<778.	ug/Kg	778.				
INDENO(1,2,3-CD)PYRENE	<778.	ug/Kg	778.				
DIBENZ(A,H)ANTHRACENE	<778.	ug/Kg	778.				
BENZO(G,H,I)PERYLENE	<778.	ug/Kg	778.				
SURROGATE 2-FLUOROBIPHENYL	103	% Recovery					
SURROGATE O-TERPHENYL	130	% Recovery					

CARR and ASSOCIATES

SAMPLE ID- 218-N.S.W.
LOCATION- Tank Pit
SAMPLE NUMBER- 7384
SAMPLE MATRIX- SOIL

DATE SAMPLED- 05/31/95
TIME SAMPLED- 1135
DATE RECEIVED- 06/02/95

TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- DH
SAMPLER- Lamar L. Kennedy

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	91.8	%	0.01		06/08/95		
TOT. PET. HYDROCARBONS-OIL	146	mg/Kg	10.9	06/12/95	06/14/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.09	ug/Kg	1.09				
TOLUENE	<1.09	ug/Kg	1.09				
CHLOROBENZENE	<1.09	ug/Kg	1.09				
M,P-XYLENES	<1.09	ug/Kg	1.09				
O-XYLENES	<1.09	ug/Kg	1.09				
ETHYL BENZENE	<1.09	ug/Kg	1.09				
1,2-DICHLOROBENZENE	<1.09	ug/Kg	1.09				
1,3-DICHLOROBENZENE	<1.09	ug/Kg	1.09				
1,4-DICHLOROBENZENE	<1.09	ug/Kg	1.09				
SURROGATE BROMOFLUOROBENZENE	109	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	78.6	% Recovery					
[illegible]BE	<5.45	ug/Kg	5.45				
[illegible]PE	<5.45	ug/Kg	5.45				
POLYNUCLEAR AROMATIC HYDROCARB				06/14/95	06/22/95	8100	
NAPHTHALENE	<719	ug/Kg	719				
ACENAPHTHYLENE	<719	ug/Kg	719				
ACENAPHTHENE	<719	ug/Kg	719				
FLUORENE	<719	ug/Kg	719				
PHENANTHRENE	<719	ug/Kg	719				
ANTHRACENE	<719	ug/Kg	719				
FLUORANTHENE	<719	ug/Kg	719				
PYRENE	<719	ug/Kg	719				
BENZO(A)ANTHRACENE	<719	ug/Kg	719				
CHRYSENE	<719	ug/Kg	719				
BENZO(B)FLUORANTHENE	<719	ug/Kg	719				
BENZO(K)FLUORANTHENE	<719	ug/Kg	719				
BENZO(A)PYRENE	<719	ug/Kg	719				
INDENO(1,2,3-CD)PYRENE	<719	ug/Kg	719				
DIBENZ(A,H)ANTHRACENE	<719	ug/Kg	719				
BENZO(G,H,I)PERYLENE	<719	ug/Kg	719				
SURROGATE 2-FLUOROBIPHENYL	90.0	% Recovery					
SURROGATE O-TERPHENYL	127	% Recovery					

CARR and ASSOCIATES

SAMPLE ID- Trip Blank
SAMPLE NUMBER- 7385
SAMPLE MATRIX- GROUNDWATER
DATE SAMPLED- 05/31/95
TIME SAMPLED- NA
DATE RECEIVED- 06/02/95
TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- DH
SAMPLER- Lamar L. Kennedy

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
VOLATILE ORGANIC COMPOUNDS					06/12/95	8020	
BENZENE	< 1	ug/L	1				
TOLUENE	1.1	ug/L	1				
CHLOROBENZENE	< 1	ug/L	1				
M,P-XYLENES	< 2	ug/L	2				
O-XYLENES	< 1	ug/L	1				
ETHYL BENZENE	< 1	ug/L	1				
1,2-DICHLOROBENZENE	< 1	ug/L	1				
1,3-DICHLOROBENZENE	< 1	ug/L	1				
1,4-DICHLOROBENZENE	< 1	ug/L	1				
SURROGATE BROMOFLUOROBENZENE	85	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	78	% Recovery					
MTBE	.	ug/L	.				
DIPE	.	ug/L	.				

CDHEC Laboratory ID 40111

LABORATORY DIRECTOR James H. Carr by Jimmie R Mutchey
James H. Carr

JAMES H. CARR & ASSOCIATES, INC.
Environmental Services

QC REPORT FOR ANDERSON COLUMBIA ENVIRON.,INC 06/28/95

QA/QC for SAMPLE Nos: 7373, 7374, 7375, 7376, 7377, 7378, 7379, 7380, 7381, 7382, 7383, 7384, 7385,

				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
BENZENE	< 1	-------	BS	16.1	15.7	2.52	BS	0	20.0	16.1	80.5	----------	--------	--------	------	7686, 7686, 7686,
8020	--------	------		--------	--------	------	BSD	0	20.0	15.7	78.5	----------	--------	--------	------	, , 7686,
ug/L																
TOLUENE	< 1	-------	BS	16.8	16.5	1.80	BS	0	20.0	15.7	78.5	----------	--------	--------	------	7686, 7686, 7686,
8020	--------	------		--------	--------	------	BSD	0	20.0	16.5	82.5	----------	--------	--------	------	, , 7686,
ug/L																
CHLOROBENZENE	< 1	-------	BS	17.9	17.9	0.00	BS	0	20.0	17.9	89.5	----------	--------	--------	------	7686, 7686, 7686,
8020	--------	------		--------	--------	------	BSD	0	20.0	17.9	89.5	----------	--------	--------	------	, , 7686,
ug/L																
M,P-XYLENES	< 2	-------	BS	36.2	36.0	0.55	BS	0	40.0	36.2	90.5	----------	--------	--------	------	7686, 7686, 7686,
8020	--------	------		--------	--------	------	BSD	0	40.0	36.0	90.0	----------	--------	--------	------	, , 7686,
ug/L																
O-XYLENES	< 1	-------	BS	17.6	17.7	0.57	BS	0	20.0	17.6	88.0	----------	--------	--------	------	7686, 7686, 7686,
8020	--------	------		--------	--------	------	BSD	0	20.0	17.7	88.5	----------	--------	--------	------	, , 7686,
ug/L																

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QA/QC for SAMPLE Nos: 7373, 7374, 7375, 7376, 7377, 7378, 7379, 7380, 7381, 7382, 7383, 7384, 7385,

				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
ETHYL BENZENE	< 1	-------	BS	17.7	17.6	0.57	BS	0	20.0	17.7	88.5	----------	--------	--------	------	7686, 7686, 7686,
8020	--------	------		--------	--------	------	BSD	0	20.0	17.6	88.0	----------	--------	--------	------	, , 7686,
ug/L																
1,2-DICHLOROBENZEN	< 1	-------	BS	19.6	20.5	4.49	BS	0	20.0	19.6	98.0	----------	--------	--------	------	7686, 7686, 7686,
E	--------	------		--------	--------	------	BSD	0	20.0	20.5	102.5	----------	--------	--------	------	, , 7686,
8020																
ug/L																
1,3-DICHLOROBENZEN	< 1	-------	BS	19.4	20.0	3.05	BS	0	20.0	19.4	97.0	----------	--------	--------	------	7686, 7686, 7686,
E	--------	------		--------	--------	------	BSD	0	20.0	20.0	100.0	----------	--------	--------	------	, , 7686,
8020																
ug/L																
1,4-DICHLOROBENZEN	< 1	-------	BS	19.0	19.8	4.12	BS	0	20.0	19.0	95.0	----------	--------	--------	------	7686, 7686, 7686,
E	--------	------		--------	--------	------	BSD	0	20.0	19.8	99.0	----------	--------	--------	------	, , 7686,
8020																
ug/L																
SURROGATE	--------	------		--------	--------	------	B	0	60.0	47.9	79.8	----------	--------	--------	------	, , 7686,
BROMOFLUOROBENZENE	--------	------		--------	--------	------	BS	0	60.0	53.4	89.0	----------	--------	--------	------	, , 7686,
8020	--------	------		--------	--------	------	BSD	0	60.0	53.1	88.5	----------	--------	--------	------	, , 7686,
% Recovery																

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QA/QC for SAMPLE Nos: 7373, 7374, 7375, 7376, 7377, 7378, 7379, 7380, 7381, 7382, 7383, 7384, 7385,

				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 aaa-TRIF	--------	------		--------	--------	------	B	0	60.0	46.0	76.7	----------	--------	--------	------	, , 7686,
LUOROTOLUENE	--------	------		--------	--------	------	BS	0	60.0	49.4	82.3	----------	--------	--------	------	, , 7686,
8020	--------	------		--------	--------	------	BSD	0	60.0	47.6	79.3	----------	--------	--------	------	, , 7686,
% Recovery																
TOT. PET.	< 10.0	737	MSD	44.5	54.4	20.02	---	--------	--------	--------	------	----------	--------	--------	------	7671, 7671, ,
HYDROCARBONS-OIL	< 10.0	7382	MSD	110	98.6	10.93	---	--------	--------	--------	------	----------	--------	--------	------	7727, 7727, ,
9071	--------	------		--------	--------	------	BS	.0017	.0181	.0182	91.2	----------	--------	--------	------	, , 7671,
mg/Kg	--------	------		--------	--------	------	BS	.0026	.0165	.0174	89.7	----------	--------	--------	------	, , 7727,
BENZENE	< 1	-------	BS	16.4	14.7	10.93	---	--------	--------	--------	------	----------	--------	--------	------	7870, 7870, ,
8020																
ug/Kg																
TOLUENE	< 1	-------	BS	16.9	15.5	8.64	---	--------	--------	--------	------	----------	--------	--------	------	7870, 7870, ,
8020																
ug/Kg																
CHLOROBENZENE	< 1	-------	BS	18.0	16.8	6.90	---	--------	--------	--------	------	----------	--------	--------	------	7870, 7870, ,
8020																
ug/Kg																

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				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
M,P-XYLENES 8020 ug/Kg	< 1	-------	BS	35.1	28.9	19.38	---	--------	--------	--------	------	----------	--------	--------	------	7870, 7870, ,
O-XYLENES 8020 ug/Kg	< 1	-------	BS	18.0	17.3	3.97	---	--------	--------	--------	------	----------	--------	--------	------	7870, 7870, ,
ETHYL BENZENE 8020 ug/Kg	< 1	-------	BS	18.1	16.6	8.65	---	--------	--------	--------	------	----------	--------	--------	------	7870, 7870, ,
1,2-DICHLOROBENZEN E 8020 ug/Kg	< 1	-------	BS	19.2	18.5	3.71	---	--------	--------	--------	------	----------	--------	--------	------	7870, 7870, ,
1,3-DICHLOROBENZEN E 8020 ug/Kg	< 1	-------	BS	19.1	17.9	6.49	---	--------	--------	--------	------	----------	--------	--------	------	7870, 7870, ,

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				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
1,4-DICHLOROBENZENE 8020 ug/Kg	< 1	-------	BS	18.6	17.8	4.40	---	--------	--------	--------	------	----------	--------	--------	------	7870, 7870, ,
SURROGATE BROMOFLUOROBENZENE 8020 % Recovery	83.4	-------	BS	102	95.4	6.69	---	--------	--------	--------	------	----------	--------	--------	------	7870, 7870, ,
SURROGATE aaa-TRIFLUOROTOLUENE 8020 % Recovery	89.1	-------	BS	105	103	1.92	---	--------	--------	--------	------	----------	--------	--------	------	7870, 7870, ,
NAPHTHALENE 8100 ug/Kg	< 330	7375	MS	1300	1090	17.57	MS	0	1730	1300	75.1	----------	--------	--------	------	7755, 7755, 7755,
	< 330	7375		--------	--------	------	MSD	0	1730	1090	63.0	----------	--------	--------	------	7952, , 7755,
	--------	7426	LD	< 660	< 660	0.00	---	--------	--------	--------	------	----------	--------	--------	------	, 7952, ,
	--------	-------	BS	32.1	43.7	30.61	BS	0	50.0	32.1	64.2	----------	--------	--------	------	, 7755, 7755,
	--------	-------	BS	39.5	46.0	15.20	BSD	0	50.0	43.7	87.4	----------	--------	--------	------	, 7952, 7755,
	--------	------		--------	--------	------	BS	0	50.0	39.5	79.0	----------	--------	--------	------	, , 7952,
	--------	------		--------	--------	------	BSD	0	50.0	46.0	92.0	----------	--------	--------	------	, , 7952,

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				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
ACENAPHTHYLENE	< 330	7375	MS	1330	1100	18.93	MS	0	1730	1330	76.9					7755, 7755, 7755,
8100	< 330	7375					MSD	0	1730	1100	63.6					7952, , 7755,
ug/Kg		7426	LD	< 660	< 660	0.00	---									, 7952, ,
			BS	32.2	44.3	31.63	BS	0	50.0	32.2	64.4					, 7755, 7755,
			BS	38.8	46.3	17.63	BSD	0	50.0	44.3	88.6					, 7952, 7755,
							BS	0	50.0	38.8	77.6					, , 7952,
							BSD	0	50.0	46.3	92.6					, , 7952,
ACENAPHTHENE	< 330	7375	MS	1350	1120	18.62	MS	0	1730	1350	78.0					7755, 7755, 7755,
8100	< 330	7375					MSD	0	1730	1120	64.7					7952, , 7755,
ug/Kg		7426	LD	< 660	< 660	0.00	---									, 7952, ,
			BS	31.9	43.7	31.22	BS	0	50.0	31.9	63.8					, 7755, 7755,
			BS	38.6	45.8	17.06	BSD	0	50.0	43.7	87.4					, 7952, 7755,
							BS	0	50.0	38.6	77.2					, , 7952,
							BSD	0	50.0	45.8	91.6					, , 7952,
FLUORENE	< 330	7375	MS	1470	1210	19.40	MS	0	1730	1470	85.0					7755, 7755, 7755,
8100	< 330	7375					MSD	0	1730	1210	69.9					7952, , 7755,
ug/Kg		7426	LD	< 660	< 660	0.00	---									, 7952, ,
			BS	33.8	46.7	32.05	BS	0	50.0	33.8	67.6					, 7755, 7755,
			BS	41.5	50.0	18.58	BSD	0	50.0	46.7	93.4					, 7952, 7755,
							BS	0	50.0	41.5	83.0					, , 7952,
							BSD	0	50.0	50.0	100.0					, , 7952,

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				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
PHENANTHRENE	< 330	7375	MS	1310	1110	16.53	MS	0	1730	1310	75.7					7755, 7755, 7755,
8100	< 330	7375					MSD	0	1730	1110	64.2					7952, , 7755,
ug/Kg		7426	LD	< 660	< 660	0.00										, 7952, ,
			BS	31.9	44.2	32.33	BS	0	50.0	31.9	63.8					, 7755, 7755,
			BS	39.3	51.7	27.25	BSD	0	50.0	44.2	88.4					, 7952, 7755,
							BS	0	50.0	39.3	78.6					, , 7952,
							BSD	0	50.0	51.7	103.4					, , 7952,
ANTHRACENE	< 330	7375	MS	1310	1110	16.53	MS	0	1730	1310	75.7					7755, 7755, 7755,
8100	< 330	7375					MSD	0	1730	1110	64.2					7952, , 7755,
ug/Kg		7426	LD	< 660	< 660	0.00										, 7952, ,
			BS	31.9	44.2	32.33	BS	0	50.0	31.9	63.8					, 7755, 7755,
			BS	39.3	51.7	27.25	BSD	0	50.0	44.2	88.4					, 7952, 7755,
							BS	0	50.0	39.3	78.6					, , 7952,
							BSD	0	50.0	51.7	103.4					, , 7952,
FLUORANTHENE	< 330	7375	MS	1610	1310	20.55	MS	0	1730	1610	93.1					7755, 7755, 7755,
8100	< 330	7375					MSD	0	1730	1310	75.7					7952, , 7755,
ug/Kg		7426	LD	< 660	< 660	0.00										, 7952, ,
			BS	36.8	50.4	31.19	BS	0	50.0	36.8	73.6					, 7755, 7755,
			BS	44.6	58.3	26.63	BSD	0	50.0	50.4	100.8					, 7952, 7755,
							BS	0	50.0	44.6	89.2					, , 7952,
							BSD	0	50.0	58.3	116.6					, , 7952,

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QA/QC for SAMPLE Nos: 7373, 7374, 7375, 7376, 7377, 7378, 7379, 7380, 7381, 7382, 7383, 7384, 7385,

				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
PYRENE	< 330	7375	MS	1610	1310	20.55	MS	0	1730	1610	93.1					7755, 7755, 7755,
8100	< 330	7375					MSD	0	1730	1310	75.7					7952, , 7755,
ug/Kg		7426	LD	< 660	< 660	0.00										, 7952, ,
			BS	34.3	48.9	35.10	BS	0	50.0	34.3	68.6					, 7755, 7755,
			BS	42.4	55.4	26.58	BSD	0	50.0	48.9	97.8					, 7952, 7755,
							BS	0	50.0	42.4	84.8					, , 7952,
							BSD	0	50.0	55.4	110.8					, , 7952,
BENZO(A)ANTHRACENE	< 330	7375	MS	2010	1680	17.89	MS	0	1730	2010	116.2					7755, 7755, 7755,
8100	< 330	7375					MSD	0	1730	1680	97.1					7952, , 7755,
ug/Kg		7426	LD	< 660	< 660	0.00										, 7952, ,
			BS	32.4	45.6	33.85	BS	0	50.0	32.4	64.8					, 7755, 7755,
			BS	45.4	53.6	16.57	BSD	0	50.0	45.6	91.2					, 7952, 7755,
							BS	0	50.0	45.4	90.8					, , 7952,
							BSD	0	50.0	53.6	107.2					, , 7952,
CHRYSENE	< 330	7375	MS	2010	1680	17.89	MS	0	1730	2010	116.2					7755, 7755, 7755,
8100	< 330	7375					MSD	0	1730	1680	97.1					7952, , 7755,
ug/Kg		7426	LD	< 660	< 660	0.00										, 7952, ,
			BS	32.4	45.6	33.85	BS	0	50.0	32.4	64.8					, 7755, 7755,
			BS	45.4	53.6	16.57	BSD	0	50.0	45.6	91.2					, 7952, 7755,
							BS	0	50.0	45.4	90.8					, , 7952,
							BSD	0	50.0	53.6	107.2					, , 7952,

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				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
BENZO(B)FLUORANTHE	< 330	7375	MS	2500	2280	9.21	MS	0	1730	2500	144.5	----------	--------	--------	------	7755, 7755, 7755,
NE	< 330	7375		--------	--------	------	MSD	0	1730	2280	131.8	----------	--------	--------	------	7952, , 7755,
8100	--------	7426	LD	< 660	< 660	0.00	---	--------	--------	--------	------	----------	--------	--------	------	, 7952, ,
ug/Kg	--------	--------	BS	38.9	53.4	31.42	BS	0	50.0	38.9	77.8	----------	--------	--------	------	, 7755, 7755,
	--------	--------	BS	43.1	56.3	26.56	BSD	0	50.0	53.4	106.8	----------	--------	--------	------	, 7952, 7755,
	--------	------		--------	--------	------	BS	0	50.0	43.1	86.2	----------	--------	--------	------	, , 7952,
	--------	------		--------	--------	------	BSD	0	50.0	56.3	112.6	----------	--------	--------	------	, , 7952,
BENZO(K)FLUORANTHE	< 330	7375	MS	2500	2280	9.21	MS	0	1730	2500	144.5	----------	--------	--------	------	7755, 7755, 7755,
NE	< 330	7375		--------	--------	------	MSD	0	1730	2280	131.8	----------	--------	--------	------	7952, , 7755,
8100	--------	7426	LD	< 660	< 660	0.00	---	--------	--------	--------	------	----------	--------	--------	------	, 7952, ,
ug/Kg	--------	--------	BS	38.9	53.4	31.42	BS	0	50.0	38.9	77.8	----------	--------	--------	------	, 7755, 7755,
	--------	--------	BS	43.1	56.3	26.56	BSD	0	50.0	53.4	106.8	----------	--------	--------	------	, 7952, 7755,
	--------	------		--------	--------	------	BS	0	50.0	43.1	86.2	----------	--------	--------	------	, , 7952,
	--------	------		--------	--------	------	BSD	0	50.0	56.3	112.6	----------	--------	--------	------	, , 7952,
BENZO(A)PYRENE	< 330	7375	MS	4360	3860	12.17	MS	0	1730	4360	252.0	----------	--------	--------	------	7755, 7755, 7755,
8100	< 330	7375		--------	--------	------	MSD	0	1730	3860	223.1	----------	--------	--------	------	7952, , 7755,
ug/Kg	--------	7426	LD	< 660	< 660	0.00	---	--------	--------	--------	------	----------	--------	--------	------	, 7952, ,
	--------	--------	BS	43.7	57.6	27.44	BS	0	50.0	43.7	87.4	----------	--------	--------	------	, 7755, 7755,
	--------	--------	BS	38.1	53.8	34.17	BSD	0	50.0	57.6	115.2	----------	--------	--------	------	, 7952, 7755,
	--------	------		--------	--------	------	BS	0	50.0	38.1	76.2	----------	--------	--------	------	, , 7952,
	--------	------		--------	--------	------	BSD	0	50.0	53.8	107.6	----------	--------	--------	------	, , 7952,

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QA/QC for SAMPLE Nos: 7373, 7374, 7375, 7376, 7377, 7378, 7379, 7380, 7381, 7382, 7383, 7384, 7385,

				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
INDENO(1,2,3-CD)PY	< 330	7375	MS	2300	2070	10.53	MS	0	1730	2300	132.9					7755, 7755, 7755,
RENE	< 330	7375					MSD	0	1730	2070	119.7					7952, , 7755,
8100		7426	LD	< 660	< 660	0.00	---									, 7952, ,
ug/Kg			BS	32.4	46.3	35.32	BS	0	50.0	32.4	64.8					, 7755, 7755,
			BS	44.1	60.2	30.87	BSD	0	50.0	46.3	92.6					, 7952, 7755,
							BS	0	50.0	44.1	88.2					, , 7952,
							BSD	0	50.0	60.2	120.4					, , 7952,
DIBENZ(A,H)ANTHRAC	< 330	7375	MS	2300	2070	10.53	MS	0	1730	2300	132.9					7755, 7755, 7755,
ENE	< 330	7375					MSD	0	1730	2070	119.7					7952, , 7755,
8100		7426	LD	< 660	< 660	0.00	---									, 7952, ,
ug/Kg			BS	32.4	46.3	35.32	BS	0	50.0	32.4	64.8					, 7755, 7755,
			BS	44.1	60.2	30.87	BSD	0	50.0	46.3	92.6					, 7952, 7755,
							BS	0	50.0	44.1	88.2					, , 7952,
							BSD	0	50.0	60.2	120.4					, , 7952,
BENZO(G,H,I)PERYLE	< 330	7375	MS	3310	3180	4.01	MS	0	1730	3310	191.3					7755, 7755, 7755,
NE	< 330	7375					MSD	0	1730	3180	183.8					7952, , 7755,
8100		7426	LD	< 660	< 660	0.00	---									, 7952, ,
ug/Kg			BS	44.8	54.6	19.72	BS	0	50.0	44.8	89.6					, 7755, 7755,
			BS	33.5	49.0	37.58	BSD	0	50.0	54.6	109.2					, 7952, 7755,
							BS	0	50.0	33.5	67.0					, , 7952,
							BSD	0	50.0	49.0	98.0					, , 7952,

JAMES H. CARR & ASSOCIATES, INC.
Environmental Services

QC REPORT FOR ANDERSON COLUMBIA ENVIRON.,INC 06/28/95

QA/QC for SAMPLE Nos: 7373, 7374, 7375, 7376, 7377, 7378, 7379, 7380, 7381, 7382, 7383, 7384, 7385,

				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	93.0	7375	MS	84.0	68.0	21.05	MS	0	100	84.0	84.0	----------	--------	--------	------	7755, 7755, 7755,
2-FLUOROBIPHENYL	98.0	7375		--------	--------	------	MSD	0	100	68.0	68.0	----------	--------	--------	------	7952, , 7755,
8100	--------	-------	BS	69.0	96.0	32.73	BS	0	100	69.0	69.0	----------	--------	--------	------	, 7755, 7755,
% Recovery	--------	-------	BS	91.0	104	13.33	BSD	0	100	96.0	96.0	----------	--------	--------	------	, 7952, 7755,
	--------	------		--------	--------	------	BS	0	100	91.0	91.0	----------	--------	--------	------	, , 7952,
	--------	------		--------	--------	------	BSD	0	100	104	104.0	----------	--------	--------	------	, , 7952,
SURROGATE	104	7375	MS	105	86.0	19.90	MS	0	100	105	105.0	----------	--------	--------	------	7755, 7755, 7755,
O-TERPHENYL	101	7375		--------	--------	------	MSD	0	100	86.0	86.0	----------	--------	--------	------	7952, , 7755,
8100	--------	-------	BS	76.0	104	31.11	BS	0	100	76.0	76.0	----------	--------	--------	------	, 7755, 7755,
% Recovery	--------	-------	BS	93.0	124	28.57	BSD	0	100	104	104.0	----------	--------	--------	------	, 7952, 7755,
	--------	------		--------	--------	------	BS	0	100	93.0	93.0	----------	--------	--------	------	, , 7952,
	--------	------		--------	--------	------	BSD	0	100	124	124.0	----------	--------	--------	------	, , 7952,

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.
Bat. 1826 CHAIN OF CUSTODY RECORD

Page___of___

Project No. #8084 | Project Name: FT. STEWART 44

Samplers (Signature): James T. Kennedy

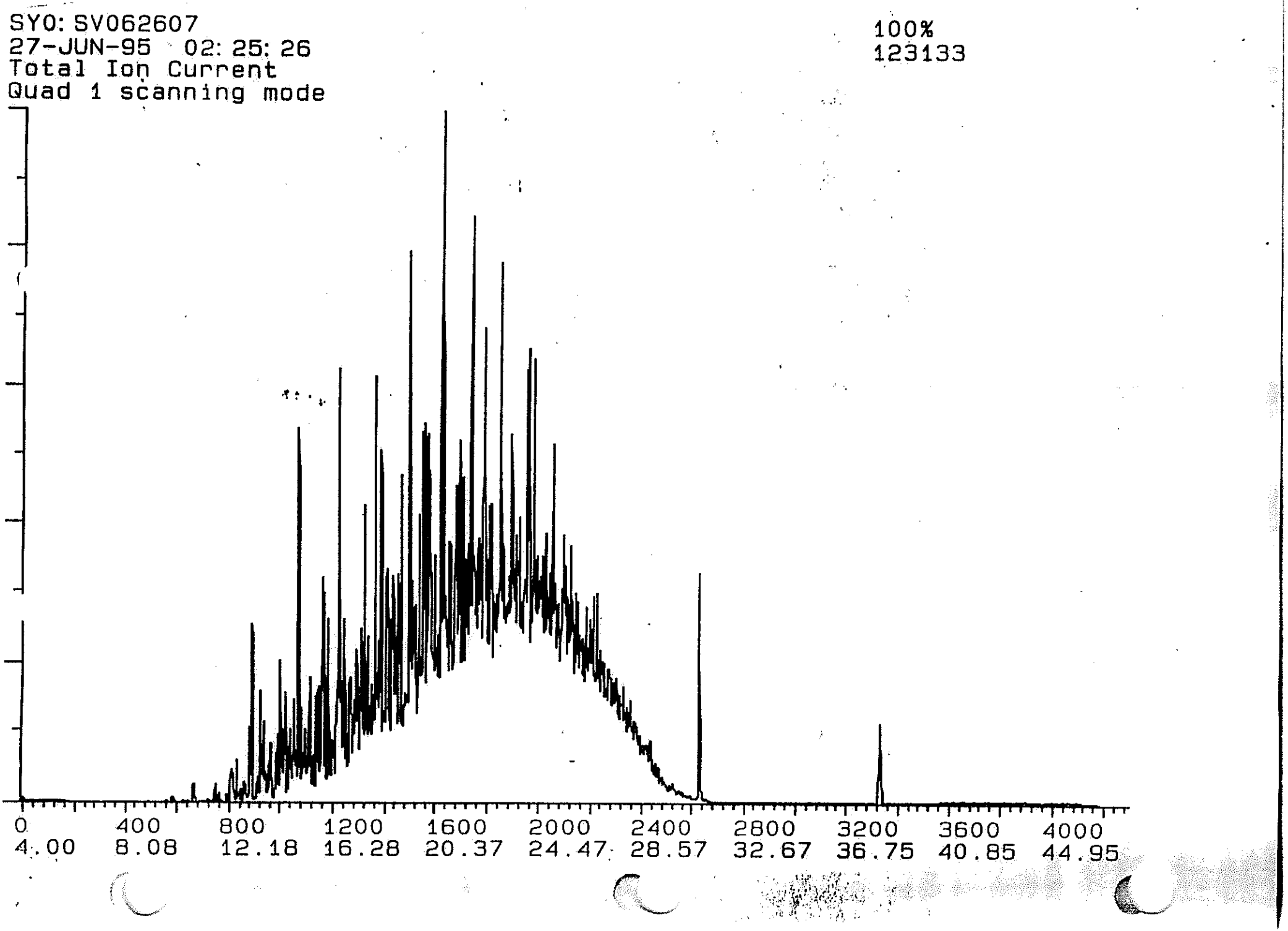
Sample Number	Date	Time	Grab	Comp.	Sample Location	No. of Containers	Preservative	8020	8100	9071					Remarks:
#219-T1-S1	5-31-95	8:15			TANK 1	3	—	✓	✓	✓					soils
#219-T1-S2	5-31-95	8:20			"	3	—	✓	✓	✓					7373
#219-E.S.W.	5-31-95	8:30			"	3	—	✓	✓	✓					7374
#219-W.S.W.	5-31-95	8:35			"	3	—	✓	✓	✓					7375
#219-N.S.W.	5-31-95	8:45			"	3	—	✓	✓	✓					7376
#219-S.S.W.	5-31-95	8:50			"	3	—	✓	✓	✓					7377
#218-T1-S1	5-31-95	11:00			"	3	—	✓	✓	✓					7378
#218-T1-S2	5-31-95	11:10			"	3	—	✓	✓	✓					7379
#218-E.S.W.	5-31-95	11:15			"	3	—	✓	✓	✓					7380
#218-W.S.W.	5-31-95	11:20			"	3	—	✓	✓	✓					7381
#218-S.S.W.	5-31-95	11:30			"	3	—	✓	✓	✓					7382
#218-N.S.W.	5-31-95	11:35			"	3	—	✓	✓	✓					7383
															7384
															7385 trip blk

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
DNP EHC 5-31-95 / James T. Kennedy	5-31-95				
Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Remarks: Temp 3.4°C, ice visible, NO C.O.C. seals
Relinquished by: Greyhound	Date / Time 6/2/95 10:00	Received by: D. Hutto			

CASE NARRATIVE FOR FORT STEWART 8100 PAHS

Samples 7373-7384: Samples had GC pattern with amorphous peaks and elevated baseline, but on confirmation by GC/MS no PAH's above detection limit were present.

Samples 7421-7428 Soils, 7429 Groundwater: These samples contained high concentrations of a mid-range boiling hydrocarbon mixture, possibly heating oil, kerosene, or diesel fuel. Confirmation by GC/MS showed several PAH's to be present in most samples. Values from the GC scans were much higher than those from the GC/MS runs. Values reported are those from the GC/MS runs. The values for the surrogate 2-fluorobiphenyl are from the GC/MS runs, but no values for the second surrogate, o-terphenyl, can be reported because it is not part of the GC/MS curve and it was either diluted out or masked in the GC runs. Attached is a copy of the GC/MS scan of a 25X dilution of the extract for sample 7422, which showed no PAH's above the necessarily elevated detection limit, but is indicative of contamination of a complex nature. This is typical of the other samples reported with elevated detection limits but having no values above these limits. Generally, naphthalene and one or two other PAH's <u>are present</u> in these samples, but at a concentration below the elevated detection limits. These numbers can be reported to you if you so desire.


SY0: SV062607
27-JUN-95 02: 25: 26
Total Ion Current
Quad 1 scanning mode
100%
123133
0 400 800 1200 1600 2000 2400 2800 3200 3600 4000
4.00 8.08 12.18 16.28 20.37 24.47 28.57 32.67 36.75 40.85 44.95

James H. Carr & Associates, Inc.
OFFICE AND LABORATORIES
P. O. BOX 90209
COLUMBIA, S. C. 29290

June 30, 1995

Mr. Brent Rose
U.S. Army Engr. Dist., Savannah
P.O. Box 889
Savannah, GA 31402

Dear Brent:

You recently received a number of data packages for Fort Stewart Delivery Order # 0206. Some of the 8100 PAH values had high detection limits. This data is being revised and a new report will be issued showing lower detection limits.

Very Truly Yours,

James H. Carr

cc: Mr. David Black at Anderson Columbia Env.

JAMES 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. David Black

REPORT DATE: 06/28/95
PROJECT NAME- Ft. Stewart 6/2

SAMPLE ID- 219-T1-S1
LOCATION- Tank Pit
SAMPLE NUMBER- 7373
SAMPLE MATRIX- SOIL

DATE SAMPLED- 05/31/95
TIME SAMPLED- 0815
DATE RECEIVED- 06/02/95

TIME RECEIVED- 1000
DELIVERED BY- Greyhound
RECEIVED BY- DH
SAMPLER- Lamar L. Kennedy

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	88.8	%	0.01		06/08/95		
TOT.. PET. HYDROCARBONS-OIL	38.8	mg/Kg	11.3	06/08/95	06/13/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.13	ug/Kg	1.13				
TOLUENE	<1.13	ug/Kg	1.13				
CHLOROBENZENE	<1.13	ug/Kg	1.13				
M,P-XYLENES	<1.13	ug/Kg	1.13				
O-XYLENES	<1.13	ug/Kg	1.13				
ETHYL BENZENE	<1.13	ug/Kg	1.13				
1,2-DICHLOROBENZENE	<1.13	ug/Kg	1.13				
1,3-DICHLOROBENZENE	<1.13	ug/Kg	1.13				
1,4-DICHLOROBENZENE	<1.13	ug/Kg	1.13				
SURROGATE BROMOFLUOROBENZENE	75.9	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	67.7	% Recovery					
MTBE	<5.63	ug/Kg	5.63				
DIPE	<5.63	ug/Kg	5.63				
POLYNUCLEAR AROMATIC HYDROCARB				06/09/95	06/11/95	8100	
NAPHTHALENE	<743.	ug/Kg	743.				
ACENAPHTHYLENE	<743.	ug/Kg	743.				
ACENAPHTHENE	<743.	ug/Kg	743.				
FLUORENE	<743.	ug/Kg	743.				
PHENANTHRENE	<743.	ug/Kg	743.				
ANTHRACENE	<743.	ug/Kg	743.				
FLUORANTHENE	<743.	ug/Kg	743.				
PYRENE	<743.	ug/Kg	743.				
BENZO(A)ANTHRACENE	<743.	ug/Kg	743.				

CONTINUATION OF DATA FOR SAMPLE NUMBER 7373

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
CHRYSENE	<743.	ug/Kg	743.				
BENZO(B)FLUORANTHENE	<743.	ug/Kg	743.				
BENZO(K)FLUORANTHENE	<743.	ug/Kg	743.				
BENZO(A)PYRENE	<743.	ug/Kg	743.				
INDENO(1,2,3-CD)PYRENE	<743.	ug/Kg	743.				
DIBENZ(A,H)ANTHRACENE	<743.	ug/Kg	743.				
BENZO(G,H,I)PERYLENE	<743.	ug/Kg	743.				
SURROGATE 2-FLUOROBIPHENYL	95.0	% Recovery					
SURROGATE O-TERPHENYL	115	% Recovery					

SAMPLE ID- 219-T1-S2 **TIME RECEIVED- 1000**
LOCATION- Tank Pit **DATE SAMPLED- 05/31/95** **DELIVERED BY- Greyhound**
SAMPLE NUMBER- 7374 **TIME SAMPLED- 0820** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 06/02/95** **SAMPLER- Lamar L. Kennedy**

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
SOLIDS	92.2	%	0.01		06/08/95		
f. PET. HYDROCARBONS-OIL	48.3	mg/Kg	10.8	06/08/95	06/13/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.08	ug/Kg	1.08				
TOLUENE	<1.08	ug/Kg	1.08				
CHLOROBENZENE	<1.08	ug/Kg	1.08				
M,P-XYLENES	<1.08	ug/Kg	1.08				
O-XYLENES	<1.08	ug/Kg	1.08				
ETHYL BENZENE	<1.08	ug/Kg	1.08				
1,2-DICHLOROBENZENE	<1.08	ug/Kg	1.08				
1,3-DICHLOROBENZENE	<1.08	ug/Kg	1.08				
1,4-DICHLOROBENZENE	<1.08	ug/Kg	1.08				
SURROGATE BROMOFLUOROBENZENE	93.9	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	86.0	% Recovery					
MTBE	<5.42	ug/Kg	5.42				
DIPE	<5.42	ug/Kg	5.42				
POLYNUCLEAR AROMATIC HYDROCARB				06/09/95	06/11/95	8100	
NAPHTHALENE	<716	ug/Kg	716				
ACENAPHTHYLENE	<716	ug/Kg	716				
ACENAPHTHENE	<716	ug/Kg	716				
FLUORENE	<716	ug/Kg	716				
PHENANTHRENE	<716	ug/Kg	716				
ANTHRACENE	<716	ug/Kg	716				

CONTINUATION OF DATA FOR SAMPLE NUMBER 7374

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
FLUORANTHENE	<716	ug/Kg	716				
PYRENE	<716	ug/Kg	716				
BENZO(A)ANTHRACENE	<716	ug/Kg	716				
CHRYSENE	<716	ug/Kg	716				
BENZO(B)FLUORANTHENE	<716	ug/Kg	716				
BENZO(K)FLUORANTHENE	<716	ug/Kg	716				
BENZO(A)PYRENE	<716	ug/Kg	716				
INDENO(1,2,3-CD)PYRENE	<716	ug/Kg	716				
DIBENZ(A,H)ANTHRACENE	<716	ug/Kg	716				
BENZO(G,H,I)PERYLENE	<716	ug/Kg	716				
SURROGATE 2-FLUOROBIPHENYL	77.0	% Recovery					
SURROGATE O-TERPHENYL	89.0	% Recovery					

SAMPLE ID- 219-E.S.W. **TIME RECEIVED- 1000**
LOCATION- Tank Pit **DATE SAMPLED- 05/31/95** **DELIVERED BY- Greyhound**
SAMPLE NUMBER- 7375 **TIME SAMPLED- 0830** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 06/02/95** **SAMPLER- Lamar L. Kennedy**

ALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	96.6	%	0.01		06/08/95		
TOT. PET. HYDROCARBONS-OIL	<10.4	mg/Kg	10.4	06/08/95	06/13/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.04	ug/Kg	1.04				
TOLUENE	<1.04	ug/Kg	1.04				
CHLOROBENZENE	<1.04	ug/Kg	1.04				
M,P-XYLENES	<1.04	ug/Kg	1.04				
O-XYLENES	<1.04	ug/Kg	1.04				
ETHYL BENZENE	<1.04	ug/Kg	1.04				
1,2-DICHLOROBENZENE	<1.04	ug/Kg	1.04				
1,3-DICHLOROBENZENE	<1.04	ug/Kg	1.04				
1,4-DICHLOROBENZENE	<1.04	ug/Kg	1.04				
SURROGATE BROMOFLUOROBENZENE	95.8	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	89.6	% Recovery					
MTBE	<5.18	ug/Kg	5.18				
DIPE	<5.18	ug/Kg	5.18				
POLYNUCLEAR AROMATIC HYDROCARB				06/09/95	06/11/95	8100	
NAPHTHALENE	<683.	ug/Kg	683.				
ACENAPHTHYLENE	<683.	ug/Kg	683.				
ACENAPHTHENE	<683.	ug/Kg	683.				

CONTINUATION OF DATA FOR SAMPLE NUMBER 7375

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
FLUORENE	<683.	ug/Kg	683.				
PHENANTHRENE	<683.	ug/Kg	683.				
ANTHRACENE	<683.	ug/Kg	683.				
FLUORANTHENE	<683.	ug/Kg	683.				
PYRENE	<683.	ug/Kg	683.				
BENZO(A)ANTHRACENE	<683.	ug/Kg	683.				
CHRYSENE	<683.	ug/Kg	683.				
BENZO(B)FLUORANTHENE	<683.	ug/Kg	683.				
BENZO(K)FLUORANTHENE	<683.	ug/Kg	683.				
BENZO(A)PYRENE	<683.	ug/Kg	683.				
INDENO(1,2,3-CD)PYRENE	<683.	ug/Kg	683.				
DIBENZ(A,H)ANTHRACENE	<683.	ug/Kg	683.				
BENZO(G,H,I)PERYLENE	<683.	ug/Kg	683.				
SURROGATE 2-FLUOROBIPHENYL	74.0	% Recovery					
SURROGATE O-TERPHENYL	95.0	% Recovery					

SAMPLE ID- 219-W.S.W. **TIME RECEIVED- 1000**
LOCATION- Tank Pit **DATE SAMPLED- 05/31/95** **DELIVERED BY- Greyhound**
AMPLE NUMBER- 7376 **TIME SAMPLED- 0835** **RECEIVED BY- DH**
MPLE MATRIX- SOIL **DATE RECEIVED- 06/02/95** **SAMPLER- Lamar L. Kennedy**

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	91.6	%	0.01		06/08/95		
TOT. PET. HYDROCARBONS-OIL	70.2	mg/Kg	10.9	06/08/95	06/13/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.09	ug/Kg	1.09				
TOLUENE	<1.09	ug/Kg	1.09				
CHLOROBENZENE	<1.09	ug/Kg	1.09				
M,P-XYLENES	<1.09	ug/Kg	1.09				
O-XYLENES	<1.09	ug/Kg	1.09				
ETHYL BENZENE	<1.09	ug/Kg	1.09				
1,2-DICHLOROBENZENE	<1.09	ug/Kg	1.09				
1,3-DICHLOROBENZENE	<1.09	ug/Kg	1.09				
1,4-DICHLOROBENZENE	<1.09	ug/Kg	1.09				
SURROGATE BROMOFLUOROBENZENE	94.1	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	89.8	% Recovery					
MTBE	<5.46	ug/Kg	5.46				
DIPE	<5.46	ug/Kg	5.46				
POLYNUCLEAR AROMATIC HYDROCARB				06/09/95	06/11/95	8100	

CONTINUATION OF DATA FOR SAMPLE NUMBER 7376

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
NAPHTHALENE	<720.	ug/Kg	720.				
ACENAPHTHYLENE	<720.	ug/Kg	720.				
ACENAPHTHENE	<720.	ug/Kg	720.				
FLUORENE	<720.	ug/Kg	720.				
PHENANTHRENE	<720.	ug/Kg	720.				
ANTHRACENE	<720.	ug/Kg	720.				
FLUORANTHENE	<720.	ug/Kg	720.				
PYRENE	<720.	ug/Kg	720.				
BENZO(A)ANTHRACENE	<720.	ug/Kg	720.				
CHRYSENE	<720.	ug/Kg	720.				
BENZO(B)FLUORANTHENE	<720.	ug/Kg	720.				
BENZO(K)FLUORANTHENE	<720.	ug/Kg	720.				
BENZO(A)PYRENE	<720.	ug/Kg	720.				
INDENO(1,2,3-CD)PYRENE	<720.	ug/Kg	720.				
DIBENZ(A,H)ANTHRACENE	<720.	ug/Kg	720.				
BENZO(G,H,I)PERYLENE	<720.	ug/Kg	720.				
SURROGATE 2-FLUOROBIPHENYL	88.0	% Recovery					
SURROGATE O-TERPHENYL	102	% Recovery					

MPLE ID- 219-N.S.W. TIME RECEIVED- 1000
CATION- Tank Pit DATE SAMPLED- 05/31/95 DELIVERED BY- Greyhound
SAMPLE NUMBER- 7377 TIME SAMPLED- 0845 RECEIVED BY- DH
SAMPLE MATRIX- SOIL DATE RECEIVED- 06/02/95 SAMPLER- Lamar L. Kennedy

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	90.2	%	0.01		06/08/95		
TOT. PET. HYDROCARBONS-OIL	49.2	mg/Kg	11.1	06/08/95	06/13/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.11	ug/Kg	1.11				
TOLUENE	<1.11	ug/Kg	1.11				
CHLOROBENZENE	<1.11	ug/Kg	1.11				
M,P-XYLENES	<1.11	ug/Kg	1.11				
O-XYLENES	<1.11	ug/Kg	1.11				
ETHYL BENZENE	<1.11	ug/Kg	1.11				
1,2-DICHLOROBENZENE	<1.11	ug/Kg	1.11				
1,3-DICHLOROBENZENE	<1.11	ug/Kg	1.11				
1,4-DICHLOROBENZENE	<1.11	ug/Kg	1.11				
SURROGATE BROMOFLUOROBENZENE	89.8	% Recovery					
SURROGATE aaa-TRIFLUOROTOLUENE	87.3	% Recovery					
MTBE	<5.54	ug/Kg	5.54				

CONTINUATION OF DATA FOR SAMPLE NUMBER 7377

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
DIPE	<5.54	ug/Kg	5.54				
POLYNUCLEAR AROMATIC HYDROCARB				06/09/95	06/11/95	8100	
NAPHTHALENE	<732	ug/Kg	732				
ACENAPHTHYLENE	<732	ug/Kg	732				
ACENAPHTHENE	<732	ug/Kg	732				
FLUORENE	<732	ug/Kg	732				
PHENANTHRENE	<732	ug/Kg	732				
ANTHRACENE	<732	ug/Kg	732				
FLUORANTHENE	<732	ug/Kg	732				
PYRENE	<732	ug/Kg	732				
BENZO(A)ANTHRACENE	<732	ug/Kg	732				
CHRYSENE	<732	ug/Kg	732				
BENZO(B)FLUORANTHENE	<732	ug/Kg	732				
BENZO(K)FLUORANTHENE	<732	ug/Kg	732				
BENZO(A)PYRENE	<732	ug/Kg	732				
INDENO(1,2,3-CD)PYRENE	<732	ug/Kg	732				
DIBENZ(A,H)ANTHRACENE	<732	ug/Kg	732				
ENZO(G,H,I)PERYLENE	<732	ug/Kg	732				
'RROGATE 2-FLUOROBIPHENYL	77.0	% Recovery					
RROGATE O-TERPHENYL	100	% Recovery					

SAMPLE ID- 219-S.S.W. **TIME RECEIVED- 1000**
LOCATION- Tank Pit **DATE SAMPLED- 05/31/95** **DELIVERED BY- Greyhound**
SAMPLE NUMBER- 7378 **TIME SAMPLED- 0850** **RECEIVED BY- DH**
SAMPLE MATRIX- SOIL **DATE RECEIVED- 06/02/95** **SAMPLER- Lamar L. Kennedy**

ANALYSIS	RESULT	UNITS	DET. LIMIT	DATE PREPARED	DATE ANALYZED	METHOD	DIL. FACTOR
% SOLIDS	90.2	%	0.01		06/08/95		
TOT. PET. HYDROCARBONS-OIL	<11.1	mg/Kg	11.1	06/08/95	06/13/95	9071	
VOLATILE ORGANIC COMPOUNDS					06/13/95	8020	
BENZENE	<1.11	ug/Kg	1.11				
TOLUENE	<1.11	ug/Kg	1.11				
CHLOROBENZENE	<1.11	ug/Kg	1.11				
M,P-XYLENES	<1.11	ug/Kg	1.11				
O-XYLENES	<1.11	ug/Kg	1.11				
ETHYL BENZENE	<1.11	ug/Kg	1.11				
1,2-DICHLOROBENZENE	<1.11	ug/Kg	1.11				
1,3-DICHLOROBENZENE	<1.11	ug/Kg	1.11				
1,4-DICHLOROBENZENE	<1.11	ug/Kg	1.11				

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 this project support the claim that soil was NOT excavated at these sites.

NOTE: All contaminated soil removed during the **entire** project (i.e., all 52 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.

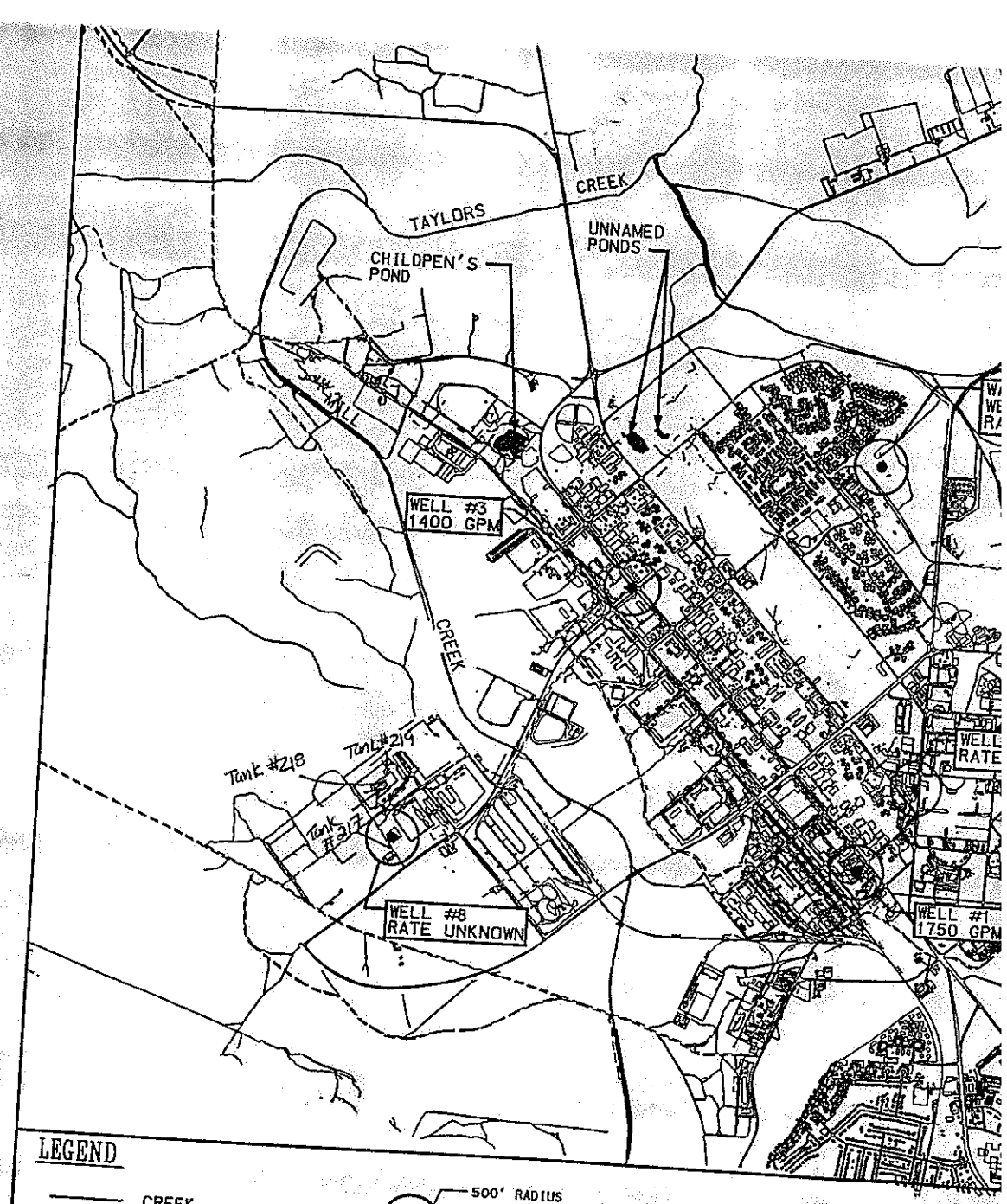


Figure . Vicinity Map Illustrating t
Groundwater Supply Wells and Surface
Within the Fort Stewart Garriso