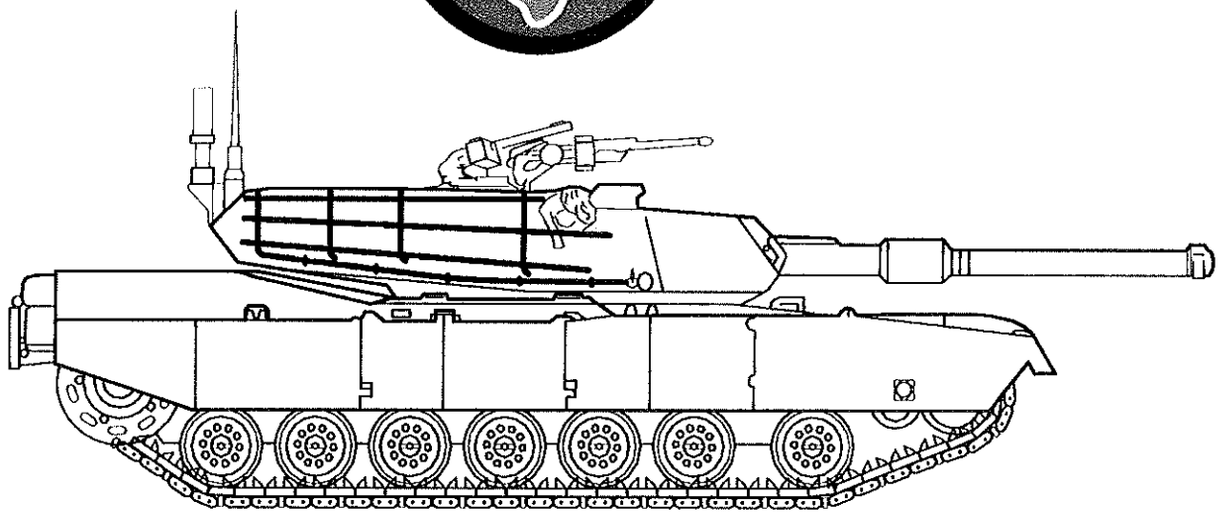
Corrected Final
Phase I RCRA Facility Investigation Report
For 24 Solid Waste Management Units
At Fort Stewart, Georgia

Volume I of III



May 1996

Job No. 87528.000

Prepared For

US Army Corps of Engineers
Savannah District

Prepared By

RUST ENVIRONMENT & INFRASTRUCTURE

DOCUMENT 4

CORRECTED FINAL

PHASE I
RCRA FACILITY INVESTIGATION REPORT
FOR 24 SOLID WASTE MANAGEMENT UNITS
AT FORT STEWART, GEORGIA
VOLUME I OF III

Prepared For

UNITED STATES ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

Contract DACA21-93-D-0029
Delivery Order 0005
Rust Project No. 87528.000
May 1996

Prepared By
RUST ENVIRONMENT AND INFRASTRUCTURE
2694 Lake Park Drive
Charleston, South Carolina 29406
803/572-5600

1.0 INTRODUCTION

This Corrected Final Phase I Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report for 24 Solid Waste Management Units (SWMUs) provides the results of implementation of the Phase I RFI Work Plan performed at Fort Stewart, Georgia. This Corrected Final Phase I RFI Report has been prepared by RUST Environment and Infrastructure, Inc. (RUST E&I) for the United States Army Corps of Engineers (USACE), Savannah District, Contract No. DACA21-93-D-0029, Delivery No. 0005.

The information provided in this report is based upon data provided by the USACE and Geraghty and Miller, Inc. Environmental Services (G&M). The field activities were completed in accordance with the Corrected Final Phase I RFI Work Plan (April, 1993) prepared by G&M. The Corrected Final Phase I RFI Report has been prepared in accordance with the USACE Scope of Work dated August 17, 1993 and is presented in the same format as the Corrected Final Phase I RFI Work Plan.

Twenty-four (24) SWMUs are discussed in this report. Two (2) SWMUs not included in this report are SWMU8 EOD Area (FST-008) and SWMU13 Fire Training Pit (FST-013) which are being addressed under other contracts.

The G&M field activities included the installation of 30 new ground-water monitoring wells at various SWMUs throughout the installation. During well drilling, G&M collected soil samples for analysis. The USACE completed all other sampling (ground-water, soil, sediment, surface soil, surface water, wastewater and sludge).

The soil samples for the G&M field investigations were analyzed by Savannah Laboratories in Savannah, Georgia and the Quality Assurance (QA) soil samples were analyzed by the USACE South Atlantic Division (SAD) Laboratory in Marietta, Georgia. The soil samples for the USACE field investigations were analyzed by James H. Carr and Associates, Inc.

(Carr Laboratory) in Columbia, South Carolina and International Technology Corporation Analytical Services (IT Laboratory) in Knoxville, Tennessee. The USACE QA samples were also submitted to the SAD Laboratory. All raw data from the laboratories has been included in Volume III, Appendix U of this Corrected Final Phase I RFI Report.

A Quality Control Summary Report (QCSR) and Analytical Package was prepared by G&M for the work completed by G&M in one (1) 3-ring notebook (1994). A QCSR was also prepared by USACE for the work completed by USACE in three (3) 3-ring notebooks (Volumes I, II and III)(1994).

With the exception of the following changes, the sampling program adhered to the approved Corrected Final Phase I RFI Work Plan (1993).

- Two (2) up-gradient surface water samples were collected at SWMU1, instead of the proposed one (1) up-stream and one (1) down-stream samples. The proposed down-gradient surface water sample was mistakenly taken in an up-gradient location.
- Due to drought, one (1) surface soil sample was collected at the Tac-X Landfill SWMU3 in lieu of surface water and leachate samples.
- Based on the field records, soil samples were not collected below six feet below land surface or to the water table in the location chosen for soil boring MW4 at Burn Pit SWMU4B because of sustained OVA readings above the health and safety action levels. This soil boring was abandoned and the monitoring well SWMU4B, MW4(b) was later installed by the USACE.
- Four (4) extra surface soil samples were taken at EOD Area SWMU12.
- One (1) extra surface water sample and one (1) extra QA surface water sample were collected at the Industrial Wastewater Treatment Plant SWMU18.
- No sludge sample was available at the Radiator Shop SWMU24A.
- Five (5) extra ground-water samples and five (5) extra soil samples were collected at the Waste Oil Tanks SWMU25.

- Two (2) extra soil samples and two (2) surface soil samples were collected at the 724th Tanker Purging Station SWMU26.
- Field duplicated soil samples were mistakenly collected and submitted by G&M for laboratory analysis by pH and specific conductance at SWMU2, SWMU4A through 4F, and SWMU14.
- The analytical methods used to analyze the ground-water samples were inadvertently switched by the laboratory from SW-846 Method 8080 to Method 608. During all future sampling and analyses, it will be ensured that only SW-846 methods will be utilized.
- The detection limits for vinyl chloride and toxaphene were inadvertently higher than their MCLs, SMCLs, and/or action levels. During all future sample analyses, it will be ensured that the detection limits for all parameters are less than, or equal to, their MCLs, SMCLs, and/or action levels.

5.16 724th Tanker Purging Station SWMU26 (FST-026)

5.16.1 Site Description

The 724th Tanker Purging Station SWMU26(FST-026) is located in the western cantonment area, at the western end of the fuel truck parking area of the McFarland Avenue 1800 block (Figure 5-152). The purging station facility is located between the chain-link fence at the parking area (western end) and a shallow ditch approximately 25 feet to the west. The purging station includes an underground waste oil tank and oil/water separator, an above ground storage tank which receives water after oil/water phase separation, and underground/surface accessible pump and pumping controls for pumping water into the above ground storage tank. A PVC pipe for directing water overflow extends from the concrete manhole containing the water pump and pump controls to the nearby ditch. The purging station facility includes an area approximately 25 feet by 25 feet.

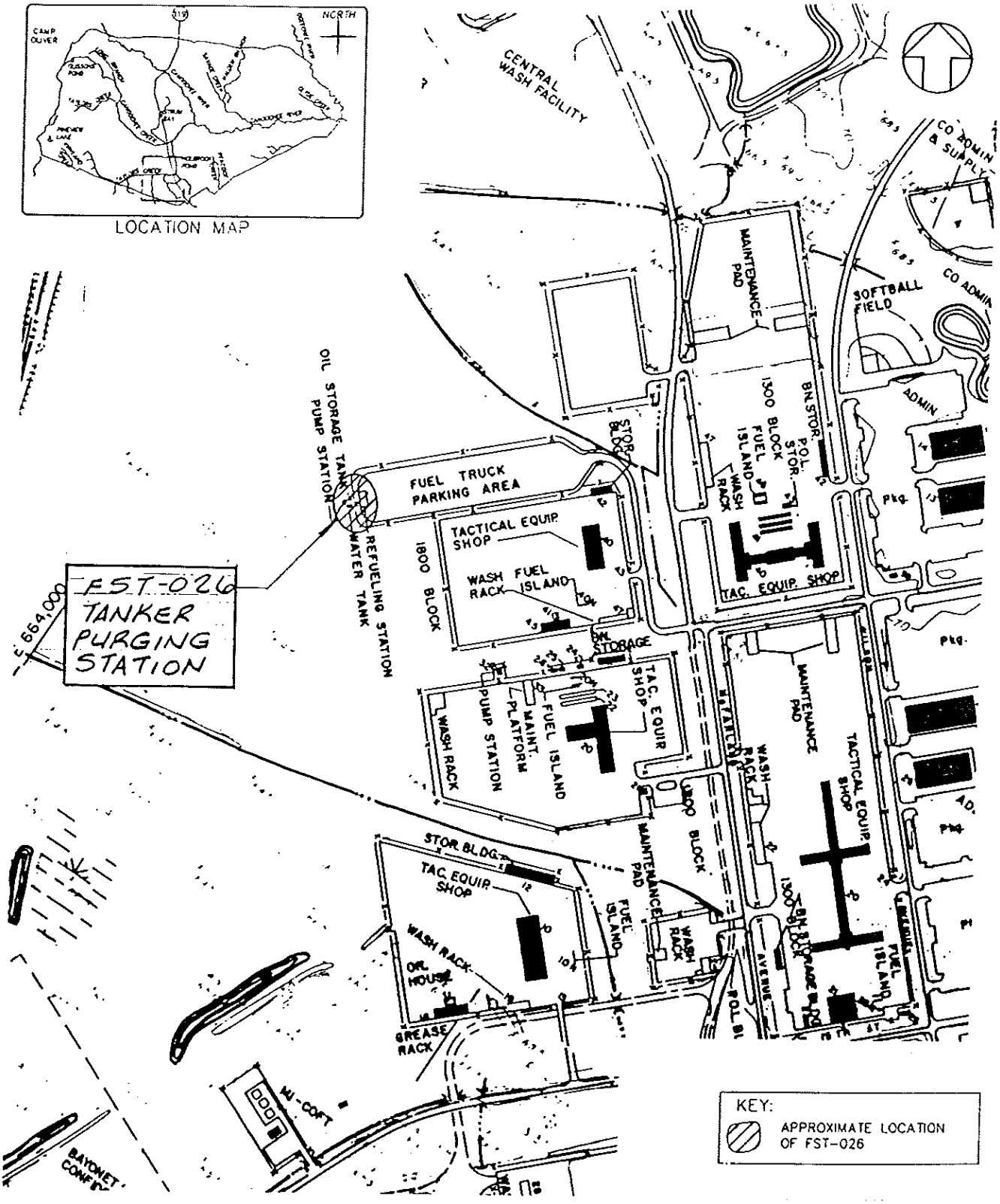
A soil boring location map is provided in Figure 5-153. Photographs from a site reconnaissance (November 8, 1993) are shown in Figure 5-154. A temporary monitoring well was located on-site. USACE workers on-site stated an approximate hydrocarbon thickness of 2.5 feet was present in the temporary monitoring well. Black-stained soils and vegetation are present near the ditch. A yellow to orange floating layer (apparent oil/water emulsion layer) was observed within both the ditch and the pump controls manhole. A petroleum hydrocarbon odor was noted. The odor appeared to be originate on-site.

5.16.2 Work Completed

The 724th Tanker Purging Station (SWMU26) was also investigated as part of SWMU25 Waste Oil Tanks. Eight (8) soil samples were collected at the SWMU26 site. Analytical results for VOCs, full TCLP constituents, TPH (light fuel and heavy fuel), and pH are summarized in Section 5.16.5. UST tightness-testing was performed as part of SWMU25.

5.16.3 Site Characterization

The 724th Tanker Purging Station (SWMU26) soil boring location map is provided in Figure



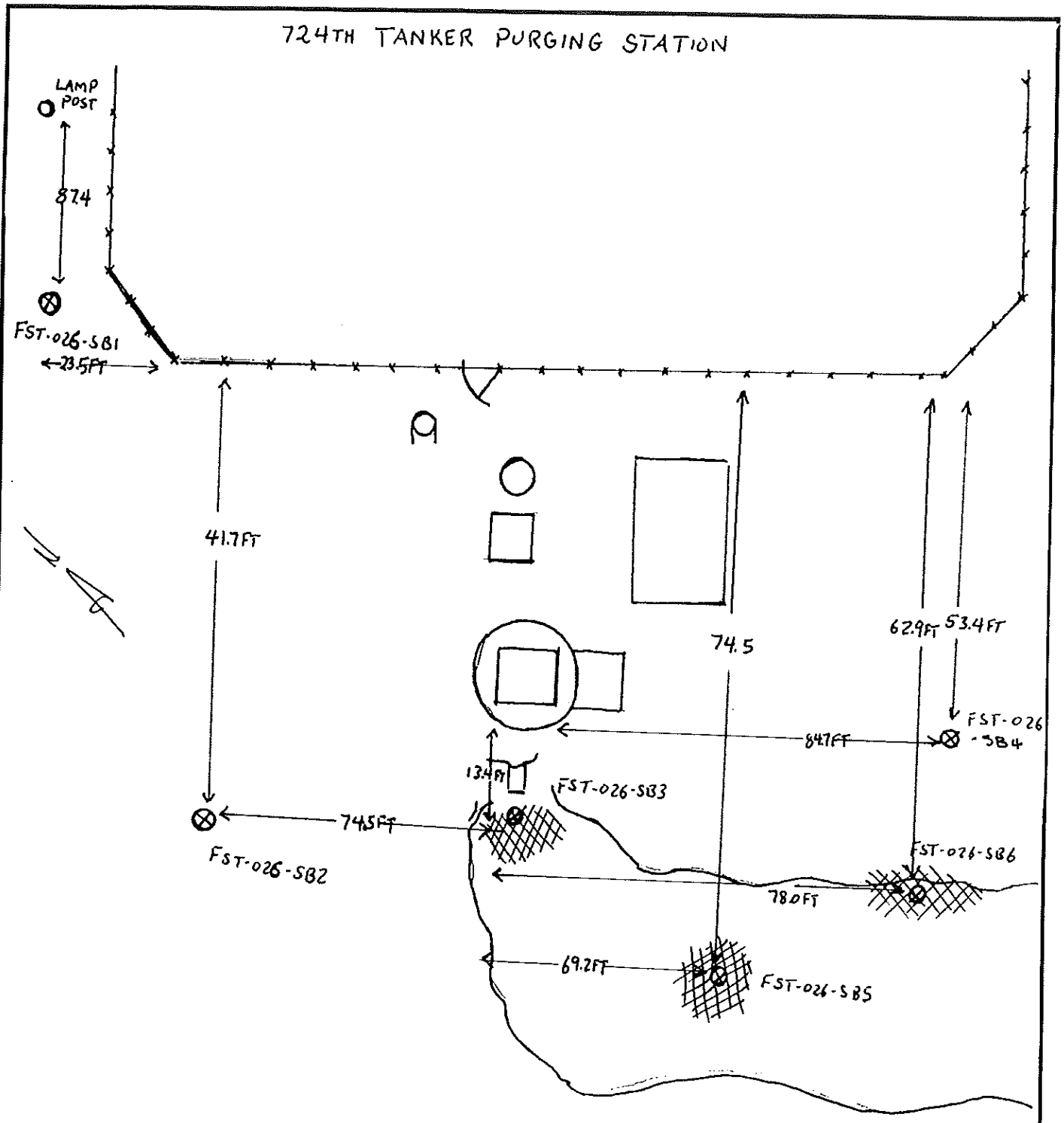
SOURCE:
GERAGHTY & MILLER, INC., 1993

RUST ENVIRONMENT & INFRASTRUCTURE

FIGURE 5-152

LOCATION MAP
SWMU-26 (FST-026)

TANKER PURGING STATION, FORT STEWART, GEORGIA
PROJECT NO. 87528.000

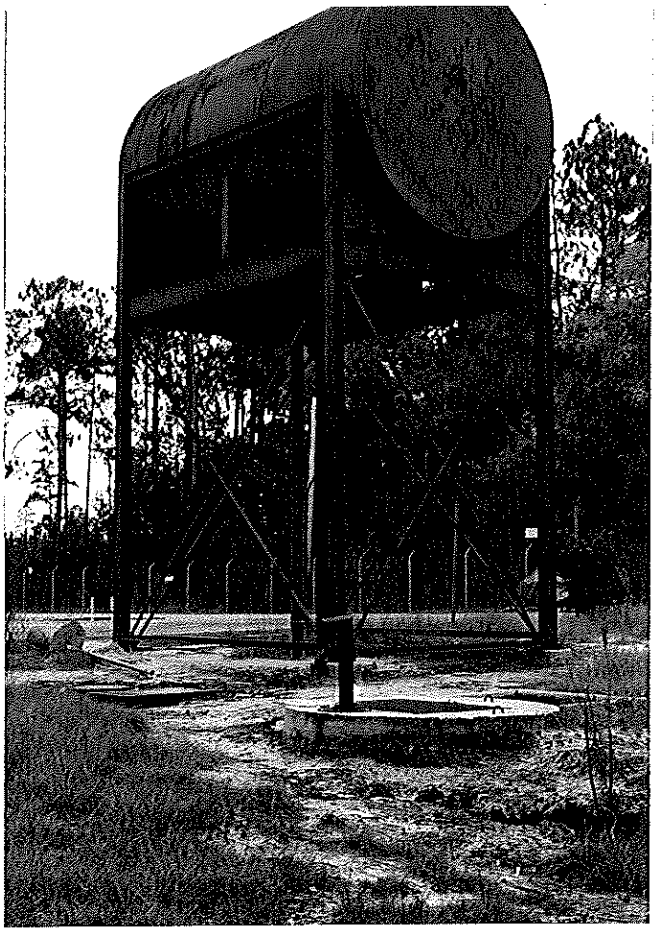


RUST ENVIRONMENT & INFRASTRUCTURE

FIGURE 5-153

SOIL BORING LOCATIONS
SWMU-26 (FST-026)

TANKER PURGING STATION, FORT STEWART, GEORGIA
PROJECT NO. 87528.000



AST IN CENTER,
OIL WATER SEPARATOR
IN LEFT FOREGROUND,
OVERFLOW & PUMP
IN CENTER FOREGROUND

PHOTO SOUTHWESTWARD, FLOATING LAYER ON WATER IN DITCH

RUST ENVIRONMENT & INFRASTRUCTURE

FIGURE 5-154

PHOTOGRAPHS
SWMU-26 (FST-026)

TANKER PURGING STATION, FORT STEWART, GEORGIA
PROJECT NO. 87528.000

5-153. The soil boring logs are provided in Appendix P1. Soils reported underlying the site are predominantly sands and sandy clays. Maximum soil boring FID/PID measurements are reported at 16/39.9 (SB-1), 14/26.5 (SB-2), +1000/801 (SB-3), 23/18.2 (SB-4), 780/446 (SB-5), and +1000/28.8 (SB-6). Fuel odors are reported from soil borings SB-3, SB-4, SB-5 and SB-6. Contaminant distributions are discussed in Section 5.16.5.

A tank tightness test was completed as part of SWMU25, Waste Oil Tanks. The tank is identified as tank 004A at facility number 1840 and according to the Tracer Research Corporation report (1994), tank 004A failed the tightness test.

5.16.4 Waste Characterization

Material characterization for the 724th Tanker Purging Station SWMU26(FST-026) includes waste liquids from purging of tanker trailers. These waste liquids contained assorted petroleum hydrocarbons such as JP-4, No. 2 fuel oil, and mogas (G&M, 1993).

5.16.5 Analytical Results

The following section presents a brief summary of the results of the laboratory analyses of the soil samples collected at the 724th Tanker Purging Station. Soil samples were collected from six (6) boring locations and are shown in Figure 5-153. In addition, two (2) surface soil samples were collected at SB5 (5A-0.0 to 0.5 feet) and SB6 (6A-0.0 to 0.5 feet). The soil samples were collected by the USACE on September 16, 1993 and November 9, 1993 and analyzed for VOCs, full TCLP, TPH and pH.

5.16.5.1 Action Levels and Clean-Up Standards

Table 5-45 summarizes the analytical results for the soil samples collected at the 724th Tanker Purging Station. The table highlights (in bold) the parameters detected above the TC regulatory levels and GAEPD guidelines or site-specific background concentrations (for unregulated parameters) in each soil sample. The complete analytical results are included in the USACE QCSR (February, 1994) and Appendix U of this report.

TABLE 5-45
SUMMARY OF SOIL ANALYTICAL RESULTS
SWMU26(FST-026) - 724TH TANKER PURGING STATION
SEPTEMBER 16 AND NOVEMBER 9, 1993

ID	Volatile Organic Compounds (mg/kg)	TCLP (ppm)	TPH (mg/kg)	pH
SB1 (Background)	BDL	BDL	BDL	5.82
SB2	BDL	BDL	BDL	5.50
SB3/SB3 DUP	Benzene = 0.125/0.0375 **1,1,2,2-Tetrachloroethane = 0.313/0.092** Toluene = 0.205/0.079 Ethylbenzene = 0.415/0.207 Xylene = 1.213/0.643	BDL/BDL	Light Fuel = 13.2/BDL **Heavy Fuel = 140.0**/0.140	6.33/ND
SB4	BDL	BDL	BDL	5.71
SB5A	**Methylene Chloride = 0.120** Toluene = 0.0352 Ethylbenzene = 0.141 **Acetone = 0.144** Xylene = 0.170	BDL	**Heavy Fuel = 25600**	4.87
SB5B	Toluene = 0.390 Ethylbenzene = 2.040 **Acetone = 0.189** Xylene = 1.910	BDL	**Light Fuel = 201** **Heavy Fuel = 4120**	5.58
SB6A	BDL	BDL	Heavy Fuel = 38.9	5.57
SB6B	BDL	BDL	Heavy Fuel = 23.4	5.89
GAEPD GUIDELINES	Total BTEX = 20	NA	100	NA

NOTES:

Dup = Duplicate
ND = No Data
BDL = Below Detection Level
TPH = Total Petroleum Hydrocarbons

5.16.5.2 Soil

Volatile Organic Compounds

BTEX concentrations were reported in soil samples SB3, SB5A and SB5B, but were below the GAEPD guideline for total BTEX of 20 mg/kg. VOC contaminants in soil samples are shown in Figure 5-155. As summarized in Table 5-45, 1,1,2,2-Tetrachloroethene, methylene chloride, and/or acetone were detected above site-specific background (SB1) in soil samples SB3, SB5A, and SB5B. Although detected above background, methylene chloride and acetone are common laboratory artifacts.

TCLP

TCLP parameters concentrations were not reported above the detection limit in soil samples at the site.

Total Petroleum Hydrocarbons

A light fuel TPH concentration was reported in soil sample SB5B, which was in excess of the GAEPD guideline of 100 mg/kg. Heavy fuel TPH was reported in soil samples SB3, SB5A, and SB5B which were also in excess of the GAEPD guideline of 100 mg/kg. TPH contaminants in soil samples are shown in Figure 5-155A.

pH

The pH of the soil ranged from 4.87 to 6.33.

5.16.5.3 Data Evaluation

The USACE QCSR (February, 1994) states that both the data quality objectives and completeness criteria were met in SWMU26, and that the data met the project objectives.

5.16.6 Evidence of Release from the Site

The analytical results indicate that TPH concentrations of heavy fuels were reported in soil samples SB3, SB5A, and SB5B and light fuels were reported in soil sample SB5B, all of which were in excess of the GAEPD guideline of 100 mg/kg for TPH at the 724th Tanker

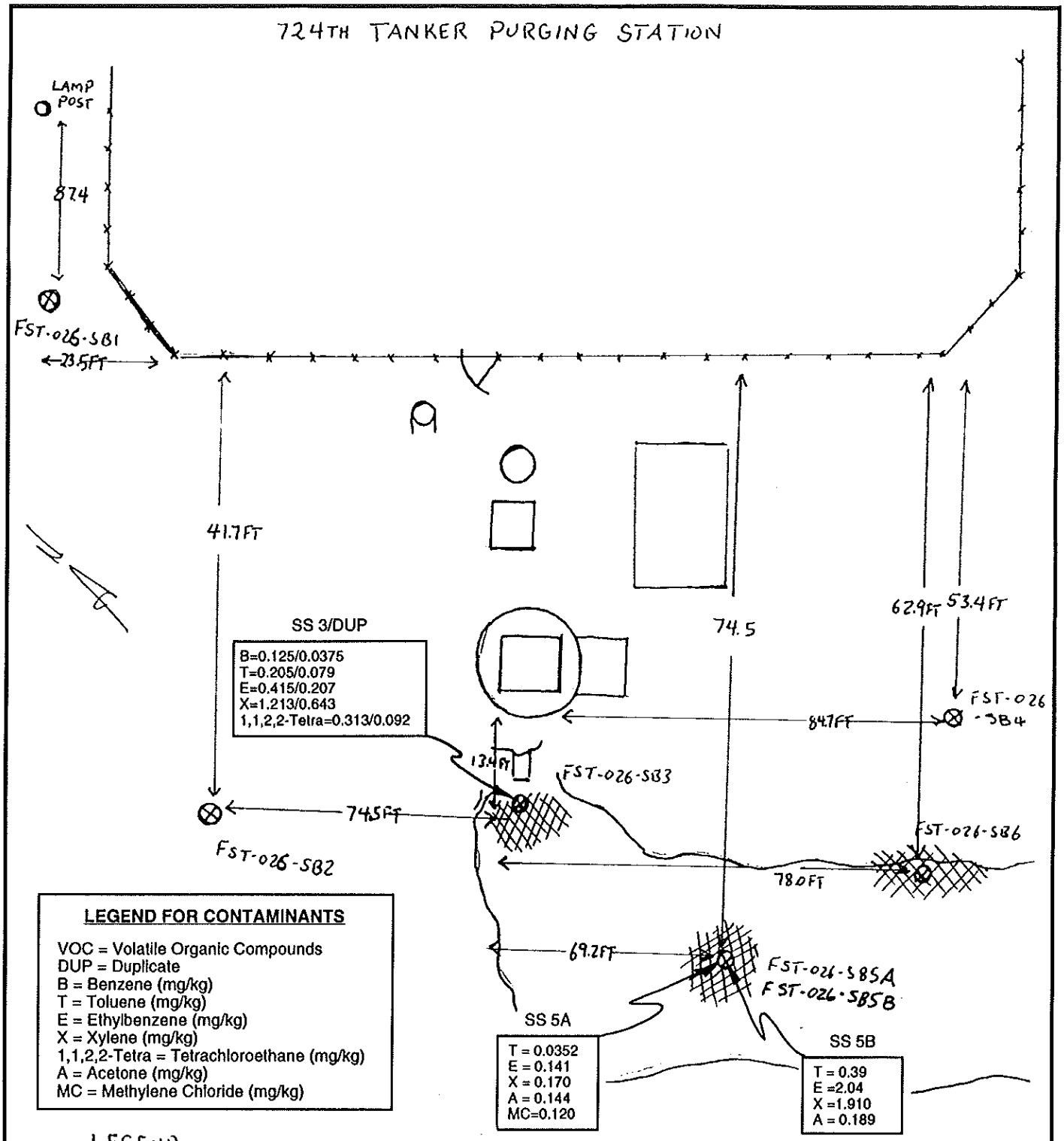


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FIGURE 5-155

VOC CONTAMINANT DISTRIBUTION IN SOILS
SWMU-26 (FST-026)

TANKER PURGING STATION, FORT STEWART, GEORGIA
PROJECT NO. 87528.000

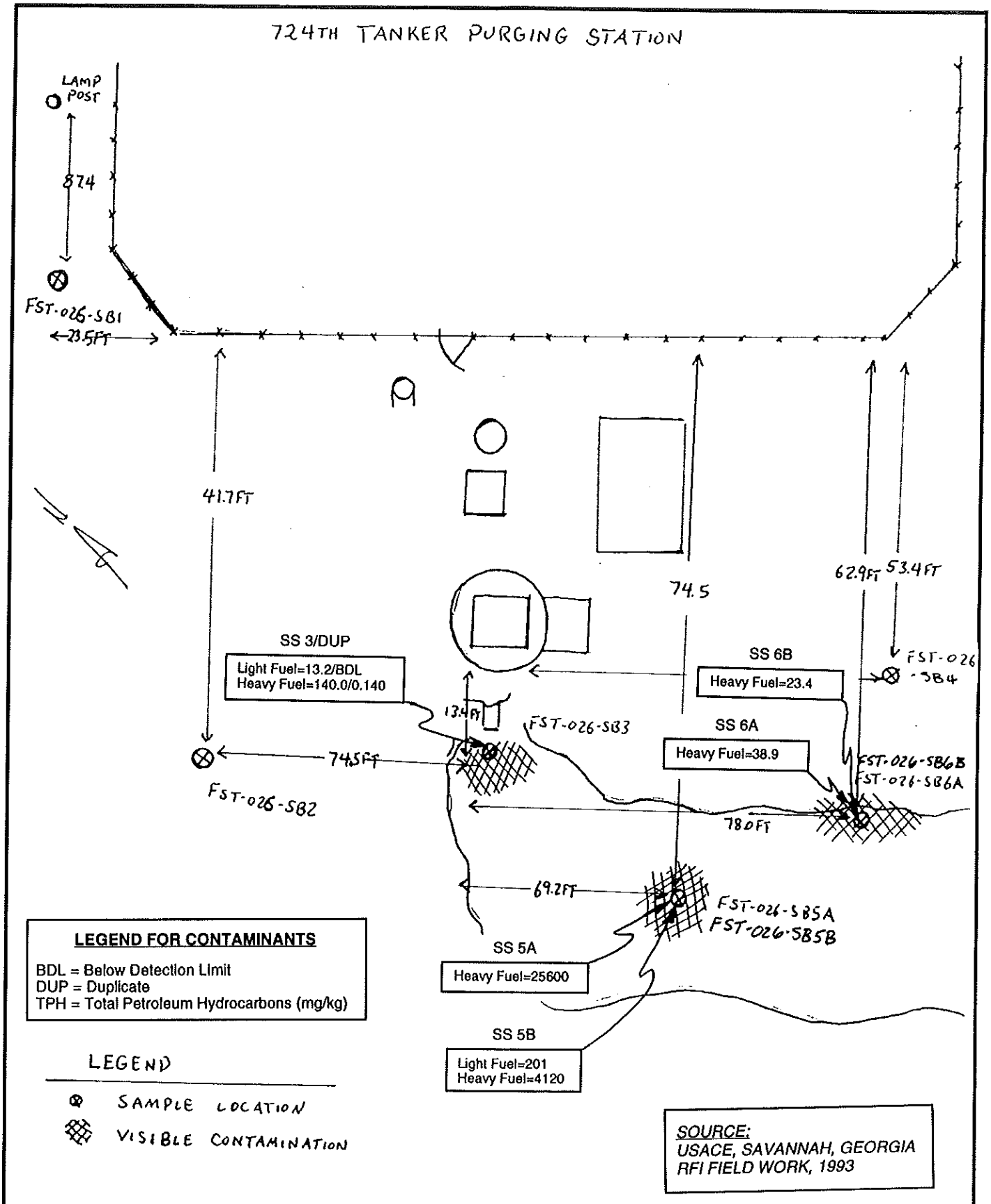

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FIGURE 5-155A

TPH CONTAMINANT DISTRIBUTION IN SOILS
SWMU-26 (FST-026)

TANKER PURGING STATION, FORT STEWART, GEORGIA
PROJECT NO. 87528.000

Purging Station SWMU26. These results indicate that a release may have occurred at the site. Also, 1,1,2,2-tetrachloroethene, methylene chloride, and acetone were detected above site-specific background concentrations and therefore, may be indicative of a release at the site.

5.16.7 Health and Environmental Assessment

The objective of the Health and Environmental Assessment (HEA) is to provide information necessary to evaluate the need for appropriate interim corrective measures or for a Corrective Measures Study (CMS). The following sections describe transport pathways and potential exposure routes for the receiving media of concern, human health and environmental toxicity criteria, and the preliminary risk evaluation for constituents and media of potential concern. Following the identification of exposure routes, constituent concentrations detected in each medium were compared to exposure-limit criteria developed for selected exposure pathways. Human and ecological exposure criteria were developed using procedures described in Chapter 8 of the *Interim Final RCRA Facility Investigation (RFI) Guidance - Development of an RFI Work Plan and General Considerations for RCRA Facility Investigations* (USEPA, 1989a).

5.17.7.1 Human Health Assessment

Transport Mechanisms and Exposure Pathways

Following release from a source, contaminants may migrate in environmental media by any of several transport mechanisms, including:

- Resuspension and airborne dispersal of contaminated soil particulates,
- Volatilization of organics from soil, surface water, or ground-water,
- Uptake of contaminants by biota,
- Stormwater runoff to surface water and sediments,
- Infiltration/percolation of soil contaminants to ground-water, and
- Discharge of ground-water to surface water and sediments.

For the purposes of this assessment, all potentially contaminated media were considered, however, only those media considered to present the most significant exposure potential were quantitatively evaluated. At SWMU26, soil samples were collected from areas of probable contamination.

A complete exposure pathway includes a contaminant source, a transport mechanism, an exposure point where contact by a receptor with the contaminated medium may occur, and a route of intake of the contaminated medium at the exposure point. Potential human exposure pathways at SWMU26 include ingestion of and dermal contact with soil, ground-water, surface water, and sediment; inhalation of vapor and contaminated soil particulates. All pathways considered to be complete were addressed and those that represented the greatest potential for risk were quantitatively evaluated. The potential exposure pathway that was quantitatively evaluated for human receptors was ingestion of soil.

Toxicity Criteria

The primary element of the human health assessment is the set of criteria (risk-based constituent concentrations) used to evaluate constituent concentrations associated with SWMU26. Human health criteria were based on EPA-established chronic exposure limits.

The health-based criteria for carcinogens, calculated from the Risk-Specific Doses (RSDs), were developed in accordance with EPA RCRA Facility Investigation (RFI) Guidance (USEPA, 1989a). The RSD is an upper bound estimate of the average daily dose of a carcinogen corresponding to an excess concern risk for lifetime exposure of 10^{-6} for Class A and B carcinogens, or 10^{-5} for Class C carcinogens. The criteria, presented in Appendix T, were calculated from RSDs as follows:

$$C_i = (R/SF) \times (W/I) \qquad \text{(Equation 1)}$$

where:

C_i = criterion concentration for the constituent of concern,

R = risk level (10^{-6} for Class A and B, 10^{-5} for Class C carcinogens),

SF = carcinogenic slope factor $(mg/kg\text{-}day)^{-1}$,

(R/SF) = the RSD,

W = assumed weight of the exposed individual (receptor), and

I = intake amount for a given time period.

The most current slope factors (SFs) were obtained from EPA's Integrated Risk Information System (IRIS) database (USEPA, 1994). When SFs were not available in IRIS, they were selected from the Health Effects Assessment Summary Tables (HEAST) (USEPA, 1993). If SFs could not be obtained from HEAST, provisional values supplied by the Superfund Health Risk Technical Support Center of the EPA Environmental Criteria and Assessment Office (SHRTSC-ECAO) were used.

The human health-based criteria for noncarcinogens, calculated from the Reference Dose (RfD), are estimates of the daily exposure that an individual (including sensitive individuals) can experience without appreciable risk of adverse health effects during a lifetime exposure. The criteria, shown in Appendix T, were calculated using the following equation:

$$C_i = (RfD) \times (W/I) \qquad \text{(Equation 2)}$$

where:

C_i = criterion concentration for the constituent of concern,

RfD = reference dose in mg/kg-day,

W = assumed weight of the exposed individual (receptor), and

I = intake amount for a given time period.

The most current RfDs were obtained, in order of priority, from EPA's IRIS, HEAST, or SHRTSC-ECAO. THe values used for the assumed weight (W) and intake rate (I) were the same as those used in calculating the carcinogen criteria, with the exception of soil ingestion. For soil ingestion, the assumed intake rate of 0.2 g/day was based on a 5-year exposure period for a 16-kg child.

For a given constituent of potential concern associated with systemic health effects, the noncarcinogen criteria for soil (ingestion) were used unless lower carcinogen criteria existed.

Preliminary Risk Evaluation

Following the calculation of exposure-limit criteria ("action levels"), comparisons were made between the action levels and the constituent concentrations present at the SWMU. Maximum detected concentrations were used for the comparison. Concentrations that exceeded human health exposure action levels are shown in Table 5-45A.

Soil samples collected at SWMU26 were analyzed for volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). Seven VOCs and two TPHs (heavy fuel and light fuel) were detected. Only TPH-heavy fuel exceeded the human health criterion value.

The exposure pathway used to develop the criteria for soil was ingestion, which was considered to represent the greatest potential for human health risk. Other potential pathways for the constituents detected in soil are dermal absorption, inhalation of airborne vapor and soil particulates, and ingestion of biota that have taken up those constituents from the soil. Constituents in soil at SWMU26 may also be transported by stormwater runoff to surface water and by infiltration/percolation to ground-water, with subsequent discharge to

TABLE 5-45A
COMPARISON OF INDIVIDUAL CONSTITUENT CONCENTRATIONS
WITH HUMAN HEALTH CRITERIA
SWMU26(FST-026) - TANKER PURGING STATION

Exposure Medium	Units	Constituent Released	Release Concentration	Criterion Type Used	Criterion Value	Release Concentrations Exceed Criterion?
SOIL	mg/kg	Acetone	1.89E-01	NC	8.00E+03	No
		Benzene	1.25E-01	C	2.41E+01	No
		Ethylbenzene	2.04E+00	NC	8.00E+03	No
		Methylene chloride	1.20E-01	C	9.33E+01	No
		1,1,2,2-Tetrachloroethan	3.13E-01	C	3.50E+01	No
		Toluene	3.90E-01	NC	1.60E+04	No
		Xylene	1.91E+00	NC	7.00E+01	No
		TPH - Heavy Fuel	2.56E+04	NC	4.80E+03 a	Yes
		TPH - Light Fuel	2.01E+02	NC	4.80E+03 a	No

* Release concentration represents the maximum detected concentration for each constituent.

a Criterion value used is the value for the constituent n-hexane.

C - Carcinogen
NC - Noncarcinogen

surface water. Potentially complete exposure pathways include ingestion of and dermal contact with the ground-water, surface water, and sediment.

5.17.7.2 Environmental Assessment

Transport Mechanisms and Exposure Pathways

Potential transport mechanisms and complete exposure pathways for ecological receptors are the same as those described in Section 5.16.7.1for human receptors, except for direct exposure to ground-water. All potentially complete exposure pathways were considered. Those that represented the greatest potential for risk were quantitatively evaluated unless the human health assessment had already indicated that further SWMU assessment for that pathway would be required.

Preliminary Risk Evaluation

The human health assessment showed that no further evaluation was indicated for the soil exposure pathway. Therefore, this pathway also was quantitatively evaluated for potential ecological risk based on ingestion of soil by terrestrial organisms.

Contaminants in soil at SWMU26 were found to be of concern based on comparison to human toxicity criteria, therefore, these media were considered likely to be concern for ecological receptors as well, and ecological toxicity was not evaluated separately. The available human toxicity criteria are generally better substantiated, more consistent, and more reliable than the toxicity data available for ecological receptors, resulting in less uncertainty associated with the validity of conclusions based on human toxicity. Also, ecological receptors may be more susceptible than humans to the toxic effects of contaminants due to greater sensitivity or extent of exposure. Therefore, where human health was found to be of concern, potential ecological effects should be quantitively evaluated as part of additional risk evaluation at the unit, to include uptake from soil by biota and contact with surface water and sediment of nearby Mill Creek.

5.16.8 Potential for Phase II Investigation

As stated in Section 5.16.6,the analytical results indicate that a release may have occurred at SWMU26. Based on these results, a Phase II Investigation is recommended. The Phase II investigation would include installation of three (3) or four (4) monitoring wells, collecting soil samples during drilling, collecting ground-water samples and collecting surface water samples in the ditch. The soil, ground-water and surface water samples would be analyzed for VOCs, RCRA metals, TPH, pH and specific conductance. It is also recommended that an HEA of the site be completed.

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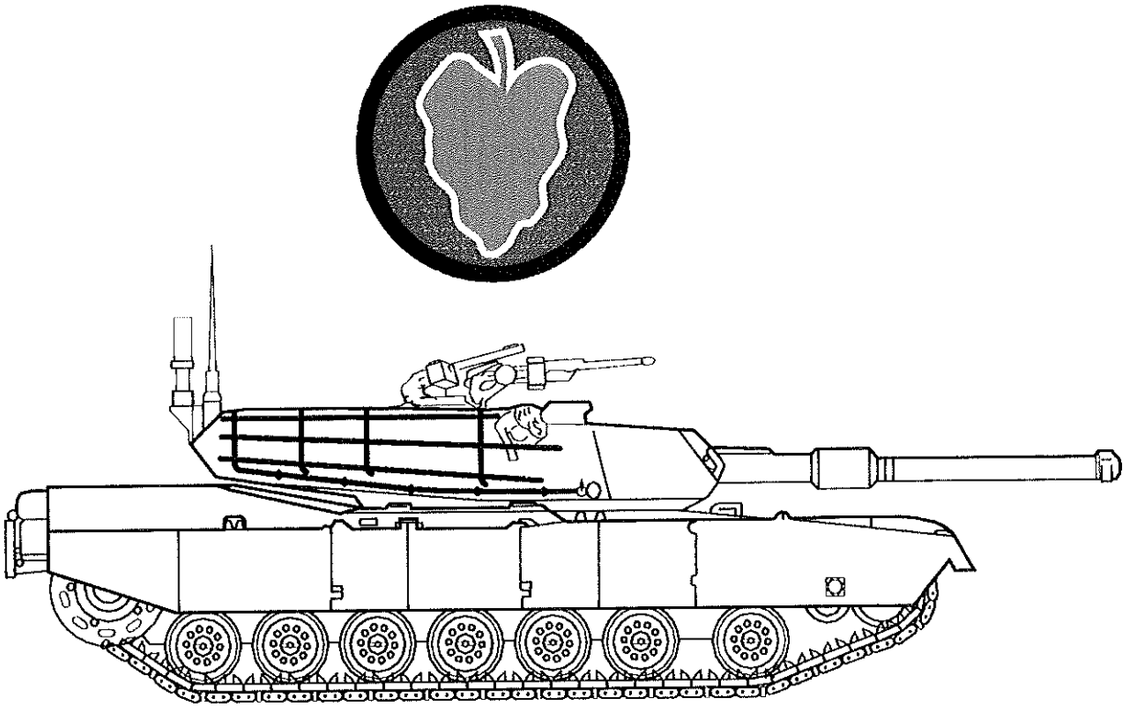

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Appendix P

SWMU26(FST-026) 724th Tanker Purging Station

Appendix P1

Soil Boring Logs

Hole No. FST-026-SB1

DRILLING LOG	DIVISION: SOUTH ATLANTIC	INSTALLATION: FORT STEWART, GA.	SHEET 1 OF 1 SHEETS

1. PROJECT	PHASE 1 RCRA FACILITY INVESTIGATION
2. LOCATION (Coordinates or Station)	SWMU-026 74TH TANKER PURGING STATION
3. DRILLING AGENCY	SAVANNAH DISTRICT
4. HOLE NO. (As shown on drawing title and file number)	FST-026-SB1
5. NAME OF DRILLER	DOUGLAS LAROUCHE
6. DIRECTION OF HOLE	[X] VERTICAL [ ] INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN	8.0'
8. DEPTH DRILLED INTO ROCK	0.0'
9. TOTAL DEPTH OF HOLE	8.0'
10. SIZE AND TYPE OF BIT	4" AUGER
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	N/A
12. MANUFACTURER'S DESIGNATION OF DRILL	CME 550
13. TOTAL NO. OF SOIL SAMPLES TAKEN	DISTURBED: 1 / UNDISTURBED: 0
14. TOTAL NUMBER CORE BOXES	0
15. GROUND WATER ELEVATION	8.0
16. DATE HOLE	STARTED: 15 SEPT 93 / COMPLETED: 16 SEPT 93
17. ELEVATION TOP OF HOLE	N/A
18. TOTAL CORE RECOVERY FOR BORING	N/A %
19. SIGNATURE OF INSPECTOR	JUDSON D. SMITH

ELEVATION (FT) a	DEPTH (FT) b	SYMBOLS c	CLASSIFICATION OF MATERIALS (Description) d	FID/PID e	JAR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0–7		(SM) White, gray silty SAND.	12/43.8		Dry, no odor.
			With white clay.	12/42.0		
	1		Gray.	11/35.9		Lightly moist, no odor.
				11/36.4		
	2			10/35.9		Moist, no odor.
				10/36.9		
	3			10/36.6		
			Tan with gray clay.	8.8/37.3		
	4		Tan with gray fat clay.	6.9/38.4		Damp, no odor.
				6.5/36.4		
	5			12/37.6		
				12/38.4		
	6			12/34.5		
				14/34.5		
	7		(SC) Gray sandy CLAY.	16/39.9		
				21/43.9	1	Wet, no odor, lab sample taken.
	8		BOTTOM OF BORING: 8.0', GROUNDWATER			
	9					
	10		NOTE: SOILS VISUALLY FIELD CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASS-IFICATION SYSTEM.			
	11					
	12					
	13					
	14					
	15					

Hole No. FST-026-SB2

DRILLING LOG	DIVISION SOUTH ATLANTIC	INSTALLATION FORT STEWART, GA.	SHEET 1 OF 1 SHEETS

1. PROJECT PHASE 1 RCRA FACILITY INVESTIGATION		10. SIZE AND TYPE OF BIT	4" AUGER
2. LOCATION (Coordinates or Station) SWMU-026 74TH TANKER PURGING STATION		11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	N/A
3. DRILLING AGENCY SAVANNAH DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL	CME 550
4. HOLE NO. (As shown on drawing title and file number)	FST-026-SB2	13. TOTAL NO. OF SOIL SAMPLES TAKEN	DISTURBED 1 / UNDISTURBED 0
5. NAME OF DRILLER DOUGLAS LAROUCHE		14. TOTAL NUMBER CORE BOXES	0
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. GROUND WATER ELEVATION	8.5
7. THICKNESS OF OVERBURDEN	8.5'	16. DATE HOLE	STARTED 15 SEPT 93 / COMPLETED 16 SEPT 93
8. DEPTH DRILLED INTO ROCK	0.0'	17. ELEVATION TOP OF HOLE	N/A
9. TOTAL DEPTH OF HOLE	8.5'	18. TOTAL CORE RECOVERY FOR BORING	N/A %
		19. SIGNATURE OF INSPECTOR	JUDSON D. SMITH

ELEVATION (FT) a	DEPTH (FT) b	SYMBOLS c	CLASSIFICATION OF MATERIALS (Description) d	FID/PID e	JAR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0		(SM) Gray and white silty SAND.	9.1/30.7		Lightly moist, no odor.
	1		(SW) Orange tan fine grain SAND.	8.1/33.7		
			(SM) Black silty SAND.	4.1/32.5		
	2			3.1/29.7		
			Gray.	2.9/29.0		
	3		(SC) Gray sandy CLAY.	3.1/29.2		Moist, no odor.
			Orange and gray.	3.2/27.7		
	4			3.1/23.0		Damp, no odor.
				3.3/28.1		
	5		With gray silt.	2.9/28.6		
				2.8/27.0		
	6		White and orange.	12/36.7	1	Lab sample taken.
				14/26.5		
	7			13/26.8		
				9.8/25.8		
	8		With red.	8.2/26.8		
				7.2/28.5		Wet, no odor.
	9		BOTTOM OF BORING: 8.5', GROUNDWATER			
	10		NOTE: SOILS VISUALLY FIELD CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASS-IFICATION SYSTEM.			
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Hole No. FST-026-SB3

DRILLING LOG	DIVISION: SOUTH ATLANTIC	INSTALLATION: FORT STEWART, GA.	SHEET 1 OF 1 SHEETS

1. PROJECT: PHASE 1 RCRA FACILITY INVESTIGATION		10. SIZE AND TYPE OF BIT: 4" AUGER	
2. LOCATION (Coordinates or Station): SWMU-026 74TH TANKER PURGING STATION		11. DATUM FOR ELEVATION SHOWN (TBM or MSL): N/A	
3. DRILLING AGENCY: SAVANNAH DISTRICT		12. MANUFACTURER'S DESIGNATION OF DRILL: CME 550	
4. HOLE NO. (As shown on drawing title and file number): FST-026-SB3		13. TOTAL NO. OF SOIL SAMPLES TAKEN: DISTURBED 1	UNDISTURBED 0
5. NAME OF DRILLER: DOUGLAS LAROUCHE		14. TOTAL NUMBER CORE BOXES: 0	
6. DIRECTION OF HOLE: [X] VERTICAL [ ] INCLINED _____ DEG. FROM VERT.		15. GROUND WATER ELEVATION: 8.0	
7. THICKNESS OF OVERBURDEN: 8.0'		16. DATE HOLE: STARTED 15 SEPT 93	COMPLETED 16 SEPT 93
8. DEPTH DRILLED INTO ROCK: 0.0'		17. ELEVATION TOP OF HOLE: N/A	
9. TOTAL DEPTH OF HOLE: 8.0'		18. TOTAL CORE RECOVERY FOR BORING: N/A %	
		19. SIGNATURE OF INSPECTOR: JUDSON D. SMITH	

ELEVATION (FT) a	DEPTH (FT) b	SYMBOLS c	CLASSIFICATION OF MATERIALS (Description) d	FID/PID e	JAR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0–2		(SM) Tan silty SAND.	34/44.6		Moist, fuel odor.
				140/388		
				460/601		Damp, fuel odor.
				800/684		
	2		(CL) Tan and gray fat CLAY.	>1000/801	1	Lab sample taken.
	2–8		(SC) Tan and gray sandy CLAY.	990/586		
				450/591		
				360/575		
				420/379		
				520/461		
				420/334		
				220/310		
				600/278		
				200/320		
				895/370		
	8		Gray.	740/352		Wet, fuel odor.

BOTTOM OF BORING: 8.0', GROUNDWATER

NOTE: SOILS VISUALLY FIELD CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM.

Hole No. FST-026-SB4

DRILLING LOG	DIVISION: SOUTH ATLANTIC	INSTALLATION: FORT STEWART, GA.	SHEET 1 OF 1 SHEETS

1. PROJECT	PHASE 1 RCRA FACILITY INVESTIGATION
2. LOCATION (Coordinates or Station)	SWMU-026 74TH TANKER PURGING STATION
3. DRILLING AGENCY	SAVANNAH DISTRICT
4. HOLE NO. (As shown on drawing title and file number)	FST-026-SB4
5. NAME OF DRILLER	DOUGLAS LAROUCHE
6. DIRECTION OF HOLE	☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN	4.0'
8. DEPTH DRILLED INTO ROCK	0.0'
9. TOTAL DEPTH OF HOLE	4.0'
10. SIZE AND TYPE OF BIT	4" AUGER
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	N/A
12. MANUFACTURER'S DESIGNATION OF DRILL	CME 550
13. TOTAL NO. OF SOIL SAMPLES TAKEN	DISTURBED: 1 / UNDISTURBED: 0
14. TOTAL NUMBER CORE BOXES	0
15. GROUND WATER ELEVATION	4.0
16. DATE HOLE	STARTED: 16 SEPT 93 / COMPLETED: 16 SEPT 93
17. ELEVATION TOP OF HOLE	N/A
18. TOTAL CORE RECOVERY FOR BORING	N/A %
19. SIGNATURE OF INSPECTOR	JUDSON D. SMITH

ELEVATION (FT) a	DEPTH (FT) b	SYMBOLS c	CLASSIFICATION OF MATERIALS (Description) d	FID/PID e	JAR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0					
	1		(SC) Red and white sandy CLAY.	3.2/15.1		Lightly moist, no odor.
				3.0/14.4		
			(SW) Gray fine grain SAND.	4.0/15.8		Moist, no odor.
	2			5.0/15.8		Damp, no odor.
			Tan.	6.0/16.9		Damp, fuel odor.
			Yellow tan.	23/18.2	1	Lab sample taken.
	3		(CL) Gray fat CLAY.	12/16.9		
			With peebles.	8.0/15.0		Wet, fuel odor.
	4		BOTTOM OF BORING: 4.0', GROUNDWATER			
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	6		NOTE: SOILS VISUALLY FIELD CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASS-IFICATION SYSTEM.			
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Hole No. FST-026-SB5

DRILLING LOG	DIVISION: SOUTH ATLANTIC	INSTALLATION: FORT STEWART, GA.	SHEET 1 OF 1 SHEETS

1. PROJECT	PHASE 1 RCRA FACILITY INVESTIGATION
2. LOCATION (Coordinates or Station)	SWMU-026 74TH TANKER PURGING STATION
3. DRILLING AGENCY	SAVANNAH DISTRICT
4. HOLE NO. (As shown on drawing title and file number)	FST-026-SB5
5. NAME OF DRILLER	J. BIDDLE
6. DIRECTION OF HOLE	☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN	3.5'
8. DEPTH DRILLED INTO ROCK	0.0'
9. TOTAL DEPTH OF HOLE	3.5'
10. SIZE AND TYPE OF BIT	4" AUGER
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	N/A
12. MANUFACTURER'S DESIGNATION OF DRILL	CME 550
13. TOTAL NO. OF SOIL SAMPLES TAKEN	DISTURBED 2 / UNDISTURBED 0
14. TOTAL NUMBER CORE BOXES	0
15. GROUND WATER ELEVATION	3.5
16. DATE HOLE	STARTED 8 NOV 93 / COMPLETED 8 NOV 93
17. ELEVATION TOP OF HOLE	N/A
18. TOTAL CORE RECOVERY FOR BORING	N/A %
19. SIGNATURE OF INSPECTOR	JUDSON D. SMITH

ELEVATION (FT) a	DEPTH (FT) b	SYMBOLS c	CLASSIFICATION OF MATERIALS (Description) d	FID/PID e	JAR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	1		(SM) Tan and light gray fine silty SAND with organic matter.	300/405	5A	Fuel odor.
				780/446		Sweet fuel odor to 1.5'.
				210/198		
	2		(SP) Tan and gray fine SAND, wet, oil sheen on sample. With organic material.	250/282		Fuel odor to 3.0', wet at 1.5'.
				352/337		
	3		Light tan, trace of clay.	380/54	5B	
				-	NO SAMPLE	Water at 3.5'.
	4		BOTTOM OF BORING: 3.5'.			

Chemical Samples

5A	0.0'-0.5'
5B	2.5'-3.0'

NOTE: SOILS VISUALLY FIELD CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM.

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Hole No. FST-026

DRILLING LOG	DIVISION: SOUTH ATLANTIC	INSTALLATION: FORT STEWART, GA.	SHEET 1 OF 1 SHEETS

1. PROJECT	PHASE 1 RCRA FACILITY INVESTIGATION
2. LOCATION (Coordinates or Station)	SWMU-026 74TH TANKER PURGING STATION
3. DRILLING AGENCY	SAVANNAH DISTRICT
4. HOLE NO. (As shown on drawing title and file number)	FST-026-SB6
5. NAME OF DRILLER	J. BIDDLE
6. DIRECTION OF HOLE	[X] VERTICAL [ ] INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN	2.5'
8. DEPTH DRILLED INTO ROCK	0.0'
9. TOTAL DEPTH OF HOLE	2.5'
10. SIZE AND TYPE OF BIT	4" AUGER
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	N/A
12. MANUFACTURER'S DESIGNATION OF DRILL	CME 550
13. TOTAL NO. OF SOIL SAMPLES TAKEN	DISTURBED 2 / UNDISTURBED 0
14. TOTAL NUMBER CORE BOXES	0
15. GROUND WATER ELEVATION	2.3
16. DATE HOLE	STARTED 8 NOV 93 / COMPLETED 8 NOV 93
17. ELEVATION TOP OF HOLE	N/A
18. TOTAL CORE RECOVERY FOR BORING	N/A %
19. SIGNATURE OF INSPECTOR	JUDSON D. SMITH

ELEVATION (FT) a	DEPTH (FT) b	SYMBOLS c	CLASSIFICATION OF MATERIALS (Description) d	FID/PID e	JAR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	0–1		(ML) Black organic SILT, moist with slight fuel odor. Dark grayish-brown.	39/46.7	6A	Slight fuel odor.
				600/42.8		Slight sweet odor to 2.5'.
				>1000/10.8		
	1–2		(SM) Tan and dark brown fine silty SAND.	>1000/28.8	6B	Very damp.
			Tan to medium brown, organic material.	52i/22.7		Surface water encountered at approximately 2.3'.
	2–3		BOTTOM OF BORING: 2.5'.			

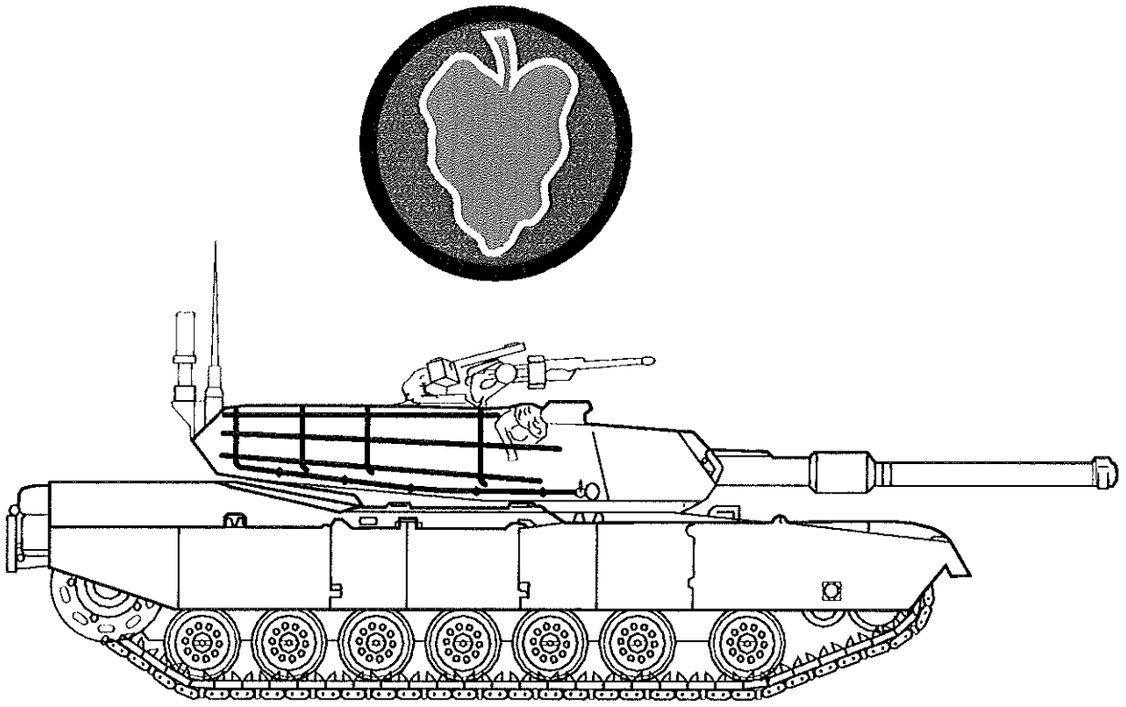
Chemical Samples

6A	0.0'-0.5'
6B	1.5'-2.0'

NOTE: SOILS VISUALLY FIELD CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM.

Corrected Final
Phase I RCRA Facility Investigation Report
For 24 Solid Waste Management Units
At Fort Stewart, Georgia

Volume III of III



May 1996

Job No. 87528.000

Prepared For

US Army Corps of Engineers
Savannah District

Prepared By

RUST ENVIRONMENT & INFRASTRUCTURE

CORRECTED FINAL

PHASE I
RCRA FACILITY INVESTIGATION REPORT
FOR 24 SOLID WASTE MANAGEMENT UNITS
AT FORT STEWART, GEORGIA
VOLUME III OF III

Prepared For

UNITED STATES ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT

Contract DACA21-93-D-0029
Delivery Order 0005
Rust Project No. 87528.000
May 1996

Prepared By
RUST ENVIRONMENT AND INFRASTRUCTURE
2694 Lake Park Drive
Charleston, South Carolina 29406
803/572-5600

James H. Carr & Associates, Inc.

Office & Laboratories
P.O. Box 90209
Columbia, SC 29290
(803) 776-7789
(800) 435-3995

10/01/93

Ms. Toni Nicholson
US Army Engr. Dist., Sav.
P.O. Box 889
Savannah, GA 31402

Dear Ms. Nicholson:

The following are the results of the parameters you requested we check on your FST-026 samples listed below.

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 09/16/93 In House # 09-6201-93 Source: SB1-9-93 Location:							
Metals Sample Preparation - water	JAG	09/23/93	17:00	0.000		0.00	
TCLP Extraction, excluding Volatile cpds	JDW	09/22/93	18:00	0.000		0.00	
TCLP Extraction, Volatile cpds. only	JDW	09/22/93	18:00	< 0.000		0.00	
TPH (heavy fuels) sample preparation	SS	09/21/93	09:00	0.000		0.00	
Pesticide extraction - TCLP	MR	09/29/93	09:00	0.000		0.00	
Herbicide extraction - TCLP	SB	09/27/93	10:00	0.000		0.00	
Base Neutrals - TCLP extraction	SB	09/28/93	08:00	0.000		0.00	
Acid - TCLP extraction	SB	09/28/93	08:00	0.000		0.00	
Lab pH	TW	09/20/93	11:10	5.820	pH Units	0.00 pH Units	150.1
Arsenic - TCLP	KAH	09/28/93	22:09	< 0.500	ppm	0.50 ppm	206.2
Selenium - TCLP	KAH	09/29/93	03:21	< 0.100	ppm	0.10 ppm	270.2
Barium - TCLP	CW	09/24/93	16:00	< 10.000	ppm	10.00 ppm	200.7
Cadmium - TCLP	CW	09/24/93	16:00	< 0.100	ppm	0.10 ppm	200.7
Chromium - TCLP	CW	09/24/93	16:00	< 0.500	ppm	0.50 ppm	200.7
Lead - TCLP	KAH	09/29/93	08:36	< 0.500	ppm	0.50 ppm	239.2
Mercury - TCLP	CMP	09/28/93	14:00	< 0.050	ppm	0.05 ppm	245.1
Silver - TCLP	CW	09/24/93	16:00	< 0.500	ppm	0.50 ppm	200.7
Benzene - TCLP	KG	09/28/93	10:47	< 0.500	mg/l	0.50 mg/l	624.
Carbon Tetrachloride - TCLP	KG	09/28/93	10:47	< 0.500	mg/l	0.50 mg/l	624.
Chlorobenzene - TCLP	KG	09/28/93	10:47	< 100.000	mg/l	100.00 mg/l	624.
Chloroform - TCLP	KG	09/28/93	10:47	< 6.000	mg/l	6.00 mg/l	624.
1,4-Dichlorobenzene - TCLP	KG	09/28/93	10:47	< 7.500	mg/l	7.50 mg/l	624.
1,2-Dichloroethane - TCLP	KG	09/28/93	10:47	< 0.500	mg/l	0.50 mg/l	624.
1,1-Dichloroethylene - TCLP	KG	09/28/93	10:47	< 0.700	mg/l	0.70 mg/l	624.
Methyl Ethyl Ketone - TCLP	KG	09/28/93	10:47	< 200.000	mg/l	200.00 mg/l	624.
Tetrachloroethylene - TCLP	KG	09/28/93	10:47	< 0.700	mg/l	0.70 mg/l	624.
Trichloroethylene - TCLP	KG	09/28/93	10:47	< 0.500	mg/l	0.50 mg/l	624.
Vinyl Chloride - TCLP	KG	09/28/93	10:47	< 0.200	mg/l	0.20 mg/l	624.
O-Cresol - TCLP	AT	09/29/93	18:13	< 200.000	mg/l	200.00 mg/l	625.
M-Cresol - TCLP	AT	09/29/93	18:13	< 200.000	mg/l	200.00 mg/l	625.
P-Cresol - TCLP	AT	09/29/93	18:13	< 200.000	mg/l	200.00 mg/l	625.
Pentachlorophenol - TCLP	AT	09/29/93	18:13	< 100.000	mg/l	100.00 mg/l	625.
2,4,5-Trichlorophenol - TCLP	AT	09/29/93	18:13	< 400.000	mg/l	400.00 mg/l	625.
2,4,6-Trichlorophenol - TCLP	AT	09/29/93	18:13	< 2.000	mg/l	2.00 mg/l	625.
2,4-Dinitrotoluene - TCLP	AT	09/29/93	18:13	< 0.130	mg/l	0.13 mg/l	625.
Hexachlorobenzene - TCLP	AT	09/29/93	18:13	< 0.130	mg/l	0.13 mg/l	625.
Hexachlorobutadiene - TCLP	AT	09/29/93	18:13	< 0.500	mg/l	0.50 mg/l	625.
Hexachloroethane - TCLP	AT	09/29/93	18:13	< 3.000	mg/l	3.00 mg/l	625.
Nitrobenzene - TCLP	AT	09/29/93	18:13	< 0.130	mg/l	0.13 mg/l	625.
Pyridine - TCLP	AT	09/29/93	18:13	< 5.000	mg/l	5.00 mg/l	625.
TPH light fuel, 5030/8015 - solid	KG	09/30/93	09:15	< 10.000	mg/kg	10.00 mg/kg	8015
TPH heavy fuel, 3550/8015 - solid	RK	09/23/93	14:33	< 10.000	mg/kg	10.00 mg/kg	8015

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Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 09/16/93 In House # 09-6201-93		Source: SB1-9-93 - CONTINUED -		Location:			
Toxaphene TCLP - liquid	RMK	09/29/93 19:08	<	0.500	mg/l	0.50 mg/l	608
2,4-D TCLP - liquid	RMK	09/30/93 14:26	<	10.000	mg/l	10.00 mg/l	509.
Silvex TCLP - liquid	RMK	09/30/93 14:26	<	1.000	mg/l	1.00 mg/l	509.
Chlordane TCLP - liquid	RMK	09/29/93 19:08	<	0.030	mg/l	0.03 mg/l	608.
Endrin TCLP - liquid	RMK	09/29/93 19:08	<	0.020	mg/l	0.02 mg/l	608.
Heptachlor TCLP - liquid	RMK	09/29/93 19:08	<	8.000	ug/l	8.00 ug/l	608.
Heptachlor Epoxide TCLP - liquid	RMK	09/29/93 19:08	<	8.000	ug/l	8.00 ug/l	608.
Lindane TCLP - liquid	RMK	09/29/93 19:08	<	0.400	mg/l	0.40 mg/l	608.
Methoxychlor TCLP - liquid	RMK	09/29/93 19:08	<	10.000	mg/l	10.00 mg/l	608.
% Solids	MB	09/23/93 09:00		78.700	%	0.01 %	160.3
Chloroethane - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240
Chloromethane - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240
Bromomethane - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Chloride - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240
Methylene Chloride - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Trichlorofluoromethane - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240
1,1-Dichloroethene - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
1,1-Dichloroethane - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,2-Dichloroethene - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloroethane - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,1-Trichloroethane - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Bromodichloromethane - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloropropane - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,3-Dichloropropene - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Trichloroethene - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Dibromochloromethane - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,2-trichloroethane - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Cis-1,3-Dichloropropene - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Benzene - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
2-Chloroethylvinyl ether - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240
Bromoform - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,2,2,-Tetrachloroethane - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Tetrachloroethene - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Toluene - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Chlorobenzene - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Ethylbenzene - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Chloroform - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Acetone - solid	KG	09/29/93 09:17	<	0.200	mg/kg	0.20 mg/kg	8240
Carbon tetrachloride - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
Xylene - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240
2-Butanone - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Acetate - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240
4-methyl-2 pentanone - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240
Styrene - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240
Carbon Disulfide - solid	KG	09/29/93 09:17	<	5.000	ug/kg	5.00 ug/kg	8240
2-Hexanone - solid	KG	09/29/93 09:17	<	10.000	ug/kg	10.00 ug/kg	8240

Comments:
TCLP Extracts were prepared and analyzed according to SW846 method 1311.
Analytical results are reported on a wet-weight basis.

The volatile run was initiated at 15:53.

For Volatile Analysis: Due to the nature of the sample, the sample size was reduced from 5g to 1g. Therefore, the detection limits and less than values are actually 5 times those reported. However, the reported levels for the compounds found have already been corrected.

Sample Date: 09/16/93 In House # 09-6202-93		Source: SB2-9-93	Location:	
Metals Sample Preparation - water	JAG	09/23/93 17:00	0.000	0.00
TCLP Extraction, excluding Volatile cpds	JDW	09/20/93 18:00	0.000	0.00
TCLP Extraction, Volatile cpds. only	JDW	09/21/93 18:00	0.000	0.00
TPH (heavy fuels) sample preparation	SS	09/21/93 09:00	0.000	0.00
Pesticide extraction - TCLP	MR	09/29/93 09:00	0.000	0.00
Herbicide extraction - TCLP	SB	09/27/93 10:00	0.000	0.00

Sample Date: 09/16/93 In House # 09-6202-93 Source: SB2-9-93 Location:

- CONTINUED -

Parameter	Analyst	Analysis Date	Time		Results	Units	Lowest Detectable Level	Method Number
Base Neutrals - TCLP extraction	SB	09/23/93	08:00		0.000		0.00	
Acid - TCLP extraction	SB	09/23/93	08:00		0.000		0.00	
Lab pH	TW	09/20/93	11:10		5.500	pH Units	0.00 pH Units	150.1
Arsenic - TCLP	KAH	09/28/93	22:09	<	0.500	ppm	0.50 ppm	206.2
Selenium - TCLP	KAH	09/29/93	03:43	<	0.100	ppm	0.10 ppm	270.2
Barium - TCLP	CW	09/24/93	16:03	<	10.000	ppm	10.00 ppm	200.7
Cadmium - TCLP	CW	09/24/93	16:03	<	0.100	ppm	0.10 ppm	200.7
Chromium - TCLP	CW	09/24/93	16:03	<	0.500	ppm	0.50 ppm	200.7
Lead - TCLP	KAH	09/29/93	08:58	<	0.500	ppm	0.50 ppm	239.2
Mercury - TCLP	KAH	09/23/93	12:00	<	0.200	ppm	0.05 ppm	245.1
Silver - TCLP	CW	09/24/93	16:03	<	0.500	ppm	0.50 ppm	200.7
Benzene - TCLP	KG	09/28/93	11:20	<	0.500	mg/l	0.50 mg/l	624.
Carbon Tetrachloride - TCLP	KG	09/28/93	11:20	<	0.500	mg/l	0.50 mg/l	624.
Chlorobenzene - TCLP	KG	09/28/93	11:20	<	100.000	mg/l	100.00 mg/l	624.
Chloroform - TCLP	KG	09/28/93	11:20	<	6.000	mg/l	6.00 mg/l	624.
1,4-Dichlorobenzene - TCLP	KG	09/28/93	11:20	<	7.500	mg/l	7.50 mg/l	624.
1,2-Dichloroethane - TCLP	KG	09/28/93	11:20	<	0.500	mg/l	0.50 mg/l	624.
1,1-Dichloroethylene - TCLP	KG	09/28/93	11:20	<	0.700	mg/l	0.70 mg/l	624.
Methyl Ethyl Ketone - TCLP	KG	09/28/93	11:20	<	200.000	mg/l	200.00 mg/l	624.
Tetrachloroethylene - TCLP	KG	09/28/93	11:20	<	0.700	mg/l	0.70 mg/l	624.
Trichloroethylene - TCLP	KG	09/28/93	11:20	<	0.500	mg/l	0.50 mg/l	624.
Vinyl Chloride - TCLP	KG	09/28/93	11:20	<	0.200	mg/l	0.20 mg/l	624.
O-Cresol - TCLP	AT	09/29/93	10:58	<	200.000	mg/l	200.00 mg/l	625.
M-Cresol - TCLP	AT	09/29/93	10:58	<	200.000	mg/l	200.00 mg/l	625.
P-Cresol - TCLP	AT	09/29/93	10:58	<	200.000	mg/l	200.00 mg/l	625.
Pentachlorophenol - TCLP	AT	09/29/93	10:58	<	100.000	mg/l	100.00 mg/l	625.
2,4,5-Trichlorophenol - TCLP	AT	09/29/93	10:58	<	400.000	mg/l	400.00 mg/l	625.
2,4,6-Trichlorophenol - TCLP	AT	09/29/93	10:58	<	2.000	mg/l	2.00 mg/l	625.
2,4-Dinitrotoluene - TCLP	AT	09/29/93	10:58	<	0.130	mg/l	0.13 mg/l	625.
Hexachlorobenzene - TCLP	AT	09/29/93	10:58	<	0.130	mg/l	0.13 mg/l	625.
Hexachlorobutadiene - TCLP	AT	09/29/93	10:58	<	0.500	mg/l	0.50 mg/l	625.
Hexachloroethane - TCLP	AT	09/29/93	10:58	<	3.000	mg/l	3.00 mg/l	625.
Nitrobenzene - TCLP	AT	09/29/93	10:58	<	0.130	mg/l	0.13 mg/l	625.
Pyridine - TCLP	AT	09/29/93	10:58	<	5.000	mg/l	5.00 mg/l	625.
TPH light fuel, 5030/8015 - solid	KG	09/30/93	10:57	<	10.000	mg/kg	10.00 mg/kg	8015
TPH heavy fuel, 3550/8015 - solid	RK	09/23/93	15:53	<	10.000	mg/kg	10.00 mg/kg	8015
Toxaphene TCLP - liquid	RMK	09/29/93	19:47	<	0.500	mg/l	0.50 mg/l	608
2,4-D TCLP - liquid	RMK	09/30/93	14:51	<	10.000	mg/l	10.00 mg/l	509.
Silvex TCLP - liquid	RMK	09/30/93	14:51	<	1.000	mg/l	1.00 mg/l	509.
Chlordane TCLP - liquid	RMK	09/29/93	19:47	<	0.030	mg/l	0.03 mg/l	608.
Endrin TCLP - liquid	RMK	09/29/93	19:47	<	0.020	mg/l	0.02 mg/l	608.
Heptachlor TCLP - liquid	RMK	09/29/93	19:47	<	8.000	ug/l	8.00 ug/l	608.
Heptachlor Epoxide TCLP - liquid	RMK	09/29/93	19:47	<	8.000	ug/l	8.00 ug/l	608.
Lindane TCLP - liquid	RMK	09/29/93	19:47	<	0.400	mg/l	0.40 mg/l	608.
Methoxychlor TCLP - liquid	RMK	09/29/93	19:48	<	10.000	mg/l	10.00 mg/l	608.
% Solids	MB	09/23/93	09:00		84.100	%	0.01 %	160.3
Chloroethane - solid	KG	09/29/93	09:20	<	10.000	ug/kg	10.00 ug/kg	8240
Chloromethane - solid	KG	09/29/93	09:20	<	10.000	ug/kg	10.00 ug/kg	8240
Bromomethane - solid	KG	09/29/93	09:20	<	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Chloride - solid	KG	09/29/93	09:20	<	10.000	ug/kg	10.00 ug/kg	8240
Methylene Chloride - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Trichlorofluoromethane - solid	KG	09/29/93	09:20	<	10.000	ug/kg	10.00 ug/kg	8240
1,1-Dichloroethene - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
1,1-Dichloroethane - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,2-Dichloroethene - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloroethane - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,1-Trichloroethane - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Bromodichloromethane - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloropropane - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,3-Dichloropropene - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Trichloroethene - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Dibromochloromethane - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,2-trichloroethane - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Cis-1,3-Dichloropropene - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Benzene - solid	KG	09/29/93	09:20	<	5.000	ug/kg	5.00 ug/kg	8240

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 09/16/93 In House # 09-6202-93		Source: S82-9-93 - CONTINUED -		Location:			
2-Chloroethylvinyl ether - solid	KG	09/29/93 09:20	<	10.000	ug/kg	10.00 ug/kg	8240
Bromoform - solid	KG	09/29/93 09:20	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,2,2,-Tetrachloroethane - solid	KG	09/29/93 09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Tetrachloroethene - solid	KG	09/29/93 09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Toluene - solid	KG	09/29/93 09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Chlorobenzene - solid	KG	09/29/93 09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Ethylbenzene - solid	KG	09/29/93 09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Chloroform - solid	KG	09/29/93 09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Acetone - solid	KG	09/29/93 09:20	<	0.200	mg/kg	0.20 mg/kg	8240
Carbon tetrachloride - solid	KG	09/29/93 09:20	<	5.000	ug/kg	5.00 ug/kg	8240
Xylene - solid	KG	09/29/93 09:20	<	10.000	ug/kg	10.00 ug/kg	8240
2-Butanone - solid	KG	09/29/93 09:20	<	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Acetate - solid	KG	09/29/93 09:20	<	10.000	ug/kg	10.00 ug/kg	8240
4-methyl-2 pentanone - solid	KG	09/29/93 09:20	<	10.000	ug/kg	10.00 ug/kg	8240
Styrene - solid	KG	09/29/93 09:20	<	10.000	ug/kg	10.00 ug/kg	8240
Carbon Disulfide - solid	KG	09/29/93 09:20	<	5.000	ug/kg	5.00 ug/kg	8240
2-Hexanone - solid	KG	09/29/93 09:20	<	10.000	ug/kg	10.00 ug/kg	8240

Comments:
TCLP Extracts were prepared and analyzed according to SW846 method 1311.
Analytical results are reported on a wet-weight basis.

The volatile run was initiated at 16:25.

For Volatile Analysis: Due to the nature of the sample, the sample size was reduced from 5g to 1g. Therefore, the detection limits and less than values are actually 5 times those reported. However, the reported levels for the compounds found have already been corrected.

Sample Date: 09/16/93 In House # 09-6203-93		Source: S83-9-93		Location:			
Metals Sample Preparation - water	JAG	09/23/93 17:00		0.000		0.00	
TCLP Extraction, excluding Volatile cpds	JDW	09/20/93 18:00		0.000		0.00	
TCLP Extraction, Volatile cpds. only	JDW	09/21/93 18:00		0.000		0.00	
TPH (heavy fuels) sample preparation	SS	09/21/93 09:00		0.000		0.00	
Pesticide extraction - TCLP	MR	09/29/93 09:00		0.000		0.00	
Herbicide extraction - TCLP	SB	09/27/93 10:00		0.000		0.00	
Base Neutrals - TCLP extraction	SB	09/23/93 08:00		0.000		0.00	
Acid - TCLP extraction	SB	09/23/93 08:00		0.000		0.00	
Lab pH	TW	09/20/93 11:10		6.330	pH Units	0.00 pH Units	150.1
Arsenic - TCLP	KAH	09/28/93 22:37	<	0.500	ppm	0.50 ppm	206.2
Selenium - TCLP	KAH	09/29/93 03:50	<	0.100	ppm	0.10 ppm	270.2
Barium - TCLP	CW	09/24/93 16:16	<	10.000	ppm	10.00 ppm	200.7
Cadmium - TCLP	CW	09/24/93 16:16	<	0.100	ppm	0.10 ppm	200.7
Chromium - TCLP	CW	09/24/93 16:16	<	0.500	ppm	0.50 ppm	200.7
Lead - TCLP	KAH	09/29/93 09:04	<	0.500	ppm	0.50 ppm	239.2
Mercury - TCLP	KAH	09/23/93 12:00	<	0.200	ppm	0.05 ppm	245.1
Silver - TCLP	CW	09/24/93 16:16	<	0.500	ppm	0.50 ppm	200.7
Benzene - TCLP	KG	09/28/93 11:51	<	0.500	mg/l	0.50 mg/l	624.
Carbon Tetrachloride - TCLP	KG	09/28/93 11:51	<	0.500	mg/l	0.50 mg/l	624.
Chlorobenzene - TCLP	KG	09/28/93 11:51	<	100.000	mg/l	100.00 mg/l	624.
Chloroform - TCLP	KG	09/28/93 11:51	<	6.000	mg/l	6.00 mg/l	624.
1,4-Dichlorobenzene - TCLP	KG	09/28/93 11:51	<	7.500	mg/l	7.50 mg/l	624.
1,2-Dichloroethane - TCLP	KG	09/28/93 11:51	<	0.500	mg/l	0.50 mg/l	624.
1,1-Dichloroethylene - TCLP	KG	09/28/93 11:51	<	0.700	mg/l	0.70 mg/l	624.
Methyl Ethyl Ketone - TCLP	KG	09/28/93 11:51	<	200.000	mg/l	200.00 mg/l	624.
Tetrachloroethylene - TCLP	KG	09/28/93 11:51	<	0.700	mg/l	0.70 mg/l	624.
Trichloroethylene - TCLP	KG	09/28/93 11:51	<	0.500	mg/l	0.50 mg/l	624.
Vinyl Chloride - TCLP	KG	09/28/93 11:51	<	0.200	mg/l	0.20 mg/l	624.
O-Cresol - TCLP	AT	09/29/93 11:44	<	200.000	mg/l	200.00 mg/l	625.
M-Cresol - TCLP	AT	09/29/93 11:44	<	200.000	mg/l	200.00 mg/l	625.
P-Cresol - TCLP	AT	09/29/93 11:44	<	200.000	mg/l	200.00 mg/l	625.
Pentachlorophenol - TCLP	AT	09/29/93 11:44	<	100.000	mg/l	100.00 mg/l	625.
2,4,5-Trichlorophenol - TCLP	AT	09/29/93 11:44	<	400.000	mg/l	400.00 mg/l	625.
2,4,6-Trichlorophenol - TCLP	AT	09/29/93 11:44	<	2.000	mg/l	2.00 mg/l	625.
2,4-Dinitrotoluene - TCLP	AT	09/29/93 11:44	<	0.130	mg/l	0.13 mg/l	625.

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 09/16/93 In House # 09-6203-93		Source: SB3-9-93 - CONTINUED -		Location:			
Hexachlorobenzene - TCLP	AT	09/29/93	11:44	< 0.130	mg/l	0.13 mg/l	625.
Hexachlorobutadiene - TCLP	AT	09/29/93	11:44	< 0.500	mg/l	0.50 mg/l	625.
Hexachloroethane - TCLP	AT	09/29/93	11:44	< 3.000	mg/l	3.00 mg/l	625.
Nitrobenzene - TCLP	AT	09/29/93	11:44	< 0.130	mg/l	0.13 mg/l	625.
Pyridine - TCLP	AT	09/29/93	11:44	< 5.000	mg/l	5.00 mg/l	625.
TPH light fuel, 5030/8015 - solid	KG	09/30/93	11:24	13.200	mg/kg	10.00 mg/kg	8015
TPH heavy fuel, 3550/8015 - solid	RK	09/23/93	21:15	140.000	mg/kg	10.00 mg/kg	8015
Toxaphene TCLP - liquid	RMK	09/29/93	20:26	< 0.500	mg/l	0.50 mg/l	608
2,4-D TCLP - liquid	RMK	09/30/93	15:71	< 10.000	mg/l	10.00 mg/l	509.
Silvex TCLP - liquid	RMK	09/30/93	15:71	< 1.000	mg/l	1.00 mg/l	509.
Chlordane TCLP - liquid	RMK	09/29/93	20:26	< 0.030	mg/l	0.03 mg/l	608.
Endrin TCLP - liquid	RMK	09/29/93	20:26	< 0.020	mg/l	0.02 mg/l	608.
Heptachlor TCLP - liquid	RMK	09/29/93	20:26	< 8.000	ug/l	8.00 ug/l	608.
Heptachlor Epoxide TCLP - liquid	RMK	09/29/93	20:26	< 8.000	ug/l	8.00 ug/l	608.
Lindane TCLP - liquid	RMK	09/29/93	20:26	< 0.400	mg/l	0.40 mg/l	608.
Methoxychlor TCLP - liquid	RMK	09/29/93	20:26	< 10.000	mg/l	10.00 mg/l	608.
% Solids	MB	09/23/93	09:00	81.900	%	0.01 %	160.3
Chloroethane - solid	KG	09/29/93	09:22	< 10.000	ug/kg	10.00 ug/kg	8240
Chloromethane - solid	KG	09/29/93	09:22	< 10.000	ug/kg	10.00 ug/kg	8240
Bromomethane - solid	KG	09/29/93	09:22	< 10.000	ug/kg	10.00 ug/kg	8240
Vinyl Chloride - solid	KG	09/29/93	09:22	< 10.000	ug/kg	10.00 ug/kg	8240
Methylene Chloride - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Trichlorofluoromethane - solid	KG	09/29/93	09:22	< 10.000	ug/kg	10.00 ug/kg	8240
1,1-Dichloroethene - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
1,1-Dichloroethane - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Trans 1,2-Dichloroethene - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloroethane - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
1,1,1-Trichloroethane - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Bromodichloromethane - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloropropane - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Trans 1,3-Dichloropropene - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Trichloroethene - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Dibromochloromethane - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
1,1,2-trichloroethane - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Cis-1,3-Dichloropropene - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Benzene - solid	KG	09/29/93	09:22	125.000	ug/kg	5.00 ug/kg	8240
2-Chloroethylvinyl ether - solid	KG	09/29/93	09:22	< 10.000	ug/kg	10.00 ug/kg	8240
Bromoform - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
1,1,2,2,-Tetrachloroethane - solid	KG	09/29/93	09:22	313.000	ug/kg	5.00 ug/kg	8240
Tetrachloroethene - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Toluene - solid	KG	09/29/93	09:22	205.000	ug/kg	5.00 ug/kg	8240
Chlorobenzene - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Ethylbenzene - solid	KG	09/29/93	09:22	415.000	ug/kg	5.00 ug/kg	8240
Chloroform - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Acetone - solid	KG	09/29/93	09:22	< 0.200	mg/kg	0.20 mg/kg	8240
Carbon tetrachloride - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
Xylene - solid	KG	09/29/93	09:22	1213.000	ug/kg	10.00 ug/kg	8240
2-Butanone - solid	KG	09/29/93	09:22	< 10.000	ug/kg	10.00 ug/kg	8240
Vinyl Acetate - solid	KG	09/29/93	09:22	< 10.000	ug/kg	10.00 ug/kg	8240
4-methyl-2 pentanone - solid	KG	09/29/93	09:22	< 10.000	ug/kg	10.00 ug/kg	8240
Styrene - solid	KG	09/29/93	09:22	< 10.000	ug/kg	10.00 ug/kg	8240
Carbon Disulfide - solid	KG	09/29/93	09:22	< 5.000	ug/kg	5.00 ug/kg	8240
2-Hexanone - solid	KG	09/29/93	09:22	< 10.000	ug/kg	10.00 ug/kg	8240

Comments:
TCLP Extracts were prepared and analyzed according to SW846 method 1311.
Analytical results are reported on a wet-weight basis.

The volatile run was initiated at 16:57.

For Volatile Analysis: Due to the nature of the sample, the sample size was reduced from 5g to 0.2g. Therefore, the detection limits and less than values are actually 25 times those reported. However, the reported levels for the compounds found have already been corrected.

Sample Date: 09/16/93 In House # 09-6204-93 Source: SB3-DUP Location:

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 09/16/93 In House # 09-6204-93		Source: SB3-DUP - CONTINUED -		Location:			
Metals Sample Preparation - water	JAG	09/23/93	17:00	0.000		0.00	
TCLP Extraction, excluding Volatile cpds	JDW	09/20/93	18:00	0.000		0.00	
TCLP Extraction, Volatile cpds. only	JDW	09/21/93	18:00	0.000		0.00	
TPH (heavy fuels) sample preparation	SS	09/21/93	09:00	0.000		0.00	
Pesticide extraction - TCLP	MR	09/29/93	09:00	0.000		0.00	
Herbicide extraction - TCLP	SB	09/27/93	10:00	0.000		0.00	
Base Neutrals - TCLP extraction	SB	09/23/93	08:00	0.000		0.00	
Acid - TCLP extraction	SB	09/23/93	08:00	0.000		0.00	
Arsenic - TCLP	KAH	09/28/93	22:43	< 0.500	ppm	0.50 ppm	206.2
Selenium - TCLP	KAH	09/29/93	03:56	< 0.100	ppm	0.10 ppm	270.2
Barium - TCLP	CW	09/24/93	16:16	< 10.000	ppm	10.00 ppm	200.7
Cadmium - TCLP	CW	09/24/93	16:16	< 0.100	ppm	0.10 ppm	200.7
Chromium - TCLP	CW	09/24/93	16:16	< 0.500	ppm	0.50 ppm	200.7
Lead - TCLP	KAH	09/29/93	09:10	< 0.500	ppm	0.50 ppm	239.2
Mercury - TCLP	KAH	09/23/93	12:00	< 0.200	ppm	0.05 ppm	245.1
Silver - TCLP	CW	09/24/93	16:16	< 0.500	ppm	0.50 ppm	200.7
Benzene - TCLP	KG	09/28/93	12:23	< 0.500	mg/l	0.50 mg/l	624.
Carbon Tetrachloride - TCLP	KG	09/28/93	12:23	< 0.500	mg/l	0.50 mg/l	624.
Chlorobenzene - TCLP	KG	09/28/93	12:23	< 100.000	mg/l	100.00 mg/l	624.
Chloroform - TCLP	KG	09/28/93	12:23	< 6.000	mg/l	6.00 mg/l	624.
1,4-Dichlorobenzene - TCLP	KG	09/28/93	12:23	< 7.500	mg/l	7.50 mg/l	624.
1,2-Dichloroethane - TCLP	KG	09/28/93	12:23	< 0.500	mg/l	0.50 mg/l	624.
1,1-Dichloroethylene - TCLP	KG	09/28/93	12:23	< 0.700	mg/l	0.70 mg/l	624.
Methyl Ethyl Ketone - TCLP	KG	09/28/93	12:23	< 200.000	mg/l	200.00 mg/l	624.
Tetrachloroethylene - TCLP	KG	09/28/93	12:23	< 0.700	mg/l	0.70 mg/l	624.
Trichloroethylene - TCLP	KG	09/28/93	12:23	< 0.500	mg/l	0.50 mg/l	624.
Vinyl Chloride - TCLP	KG	09/28/93	12:23	< 0.200	mg/l	0.20 mg/l	624.
O-Cresol - TCLP	AT	09/29/93	13:23	< 200.000	mg/l	200.00 mg/l	625.
M-Cresol - TCLP	AT	09/29/93	13:23	< 200.000	mg/l	200.00 mg/l	625.
P-Cresol - TCLP	AT	09/29/93	13:23	< 200.000	mg/l	200.00 mg/l	625.
Pentachlorophenol - TCLP	AT	09/29/93	13:23	< 100.000	mg/l	100.00 mg/l	625.
2,4,5-Trichlorophenol - TCLP	AT	09/29/93	13:23	< 400.000	mg/l	400.00 mg/l	625.
2,4,6-Trichlorophenol - TCLP	AT	09/29/93	13:23	< 2.000	mg/l	2.00 mg/l	625.
2,4-Dinitrotoluene - TCLP	AT	09/29/93	13:23	< 0.130	mg/l	0.13 mg/l	625.
Hexachlorobenzene - TCLP	AT	09/29/93	13:23	< 0.130	mg/l	0.13 mg/l	625.
Hexachlorobutadiene - TCLP	AT	09/29/93	13:23	< 0.500	mg/l	0.50 mg/l	625.
Hexachloroethane - TCLP	AT	09/29/93	13:23	< 3.000	mg/l	3.00 mg/l	625.
Nitrobenzene - TCLP	AT	09/29/93	13:23	< 0.130	mg/l	0.13 mg/l	625.
Pyridine - TCLP	AT	09/29/93	13:23	< 5.000	mg/l	5.00 mg/l	625.
TPH light fuel, 5030/8015 - solid	KG	09/30/93	11:51	< 10.000	mg/kg	10.00 mg/kg	8015
TPH heavy fuel, 3550/8015 - solid	RK	09/23/93	20:46	140.000	mg/kg	10.00 mg/kg	8015
Toxaphene TCLP - liquid	RMK	09/29/93	21:05	< 0.500	mg/l	0.50 mg/l	608
2,4-D TCLP - liquid	RMK	09/30/93	15:42	< 10.000	mg/l	10.00 mg/l	509.
Silvex TCLP - liquid	RMK	09/30/93	15:42	< 1.000	mg/l	1.00 mg/l	509.
Chlordane TCLP - liquid	RMK	09/29/93	21:05	< 0.030	mg/l	0.03 mg/l	608.
Endrin TCLP - liquid	RMK	09/29/93	21:05	< 0.020	mg/l	0.02 mg/l	608.
Heptachlor TCLP - liquid	RMK	09/29/93	21:05	< 8.000	ug/l	8.00 ug/l	608.
Heptachlor Epoxide TCLP - liquid	RMK	09/29/93	21:05	< 8.000	ug/l	8.00 ug/l	608.
Lindane TCLP - liquid	RMK	09/29/93	21:05	< 0.400	mg/l	0.40 mg/l	608.
Methoxychlor TCLP - liquid	RMK	09/29/93	21:05	< 10.000	mg/l	10.00 mg/l	608.
% Solids	MB	09/23/93	09:00	81.700	%	0.01 %	160.3
Chloroethane - solid	KG	09/29/93	09:24	< 10.000	ug/kg	10.00 ug/kg	8240
Chloromethane - solid	KG	09/29/93	09:24	< 10.000	ug/kg	10.00 ug/kg	8240
Bromomethane - solid	KG	09/29/93	09:24	< 10.000	ug/kg	10.00 ug/kg	8240
Vinyl Chloride - solid	KG	09/29/93	09:24	< 10.000	ug/kg	10.00 ug/kg	8240
Methylene Chloride - solid	KG	09/29/93	09:24	< 5.000	ug/kg	5.00 ug/kg	8240
Trichlorofluoromethane - solid	KG	09/29/93	09:24	< 10.000	ug/kg	10.00 ug/kg	8240
1,1-Dichloroethene - solid	KG	09/29/93	09:24	< 5.000	ug/kg	5.00 ug/kg	8240
1,1-Dichloroethane - solid	KG	09/29/93	09:24	< 5.000	ug/kg	5.00 ug/kg	8240
Trans 1,2-Dichloroethene - solid	KG	09/29/93	09:24	< 5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloroethane - solid	KG	09/29/93	09:24	< 5.000	ug/kg	5.00 ug/kg	8240
1,1,1-Trichloroethane - solid	KG	09/29/93	09:24	< 5.000	ug/kg	5.00 ug/kg	8240
Bromodichloromethane - solid	KG	09/29/93	09:24	< 5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloropropane - solid	KG	09/29/93	09:24	< 5.000	ug/kg	5.00 ug/kg	8240
Trans 1,3-Dichloropropene - solid	KG	09/29/93	09:24	< 5.000	ug/kg	5.00 ug/kg	8240

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 09/16/93 In House # 09-6204-93		Source: SB3-DUP - CONTINUED -		Location:			
Trichloroethene - solid	KG	09/29/93	09:24 <	5.000	ug/kg	5.00 ug/kg	8240
Dibromochloromethane - solid	KG	09/29/93	09:24 <	5.000	ug/kg	5.00 ug/kg	8240
1,1,2-trichloroethane - solid	KG	09/29/93	09:24 <	5.000	ug/kg	5.00 ug/kg	8240
Cis-1,3-Dichloropropene - solid	KG	09/29/93	09:24 <	5.000	ug/kg	5.00 ug/kg	8240
Benzene - solid	KG	09/29/93	09:24	37.500	ug/kg	5.00 ug/kg	8240
2-Chloroethylvinyl ether - solid	KG	09/29/93	09:24 <	10.000	ug/kg	10.00 ug/kg	8240
Bromoform - solid	KG	09/29/93	09:24 <	5.000	ug/kg	5.00 ug/kg	8240
1,1,2,2,-Tetrachloroethane - solid	KG	09/29/93	09:24	92.000	ug/kg	5.00 ug/kg	8240
Tetrachloroethene - solid	KG	09/29/93	09:24 <	5.000	ug/kg	5.00 ug/kg	8240
Toluene - solid	KG	09/29/93	09:24	79.000	ug/kg	5.00 ug/kg	8240
Chlorobenzene - solid	KG	09/29/93	09:24 <	5.000	ug/kg	5.00 ug/kg	8240
Ethylbenzene - solid	KG	09/29/93	09:24	207.000	ug/kg	5.00 ug/kg	8240
Chloroform - solid	KG	09/29/93	09:24 <	5.000	ug/kg	5.00 ug/kg	8240
Acetone - solid	KG	09/29/93	09:24 <	0.200	mg/kg	0.20 mg/kg	8240
Carbon tetrachloride - solid	KG	09/29/93	09:24 <	5.000	ug/kg	5.00 ug/kg	8240
Xylene - solid	KG	09/29/93	09:24	643.000	ug/kg	10.00 ug/kg	8240
2-Butanone - solid	KG	09/29/93	09:24 <	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Acetate - solid	KG	09/29/93	09:24 <	10.000	ug/kg	10.00 ug/kg	8240
4-methyl-2 pentanone - solid	KG	09/29/93	09:24 <	10.000	ug/kg	10.00 ug/kg	8240
Styrene - solid	KG	09/29/93	09:24 <	10.000	ug/kg	10.00 ug/kg	8240
Carbon Disulfide - solid	KG	09/29/93	09:24 <	5.000	ug/kg	5.00 ug/kg	8240
2-Hexanone - solid	KG	09/29/93	09:24 <	10.000	ug/kg	10.00 ug/kg	8240

Comments:
TCLP Extracts were prepared and analyzed according to SW846 method 1311.
Analytical results are reported on a wet-weight basis.

The volatile run was initiated at 17:28.

For Volatile Analysis: Due to the nature of the sample, the sample size was reduced from 5g to 1g. Therefore, the detection limits and less than values are actually 5 times those reported. However, the reported levels for the compounds found have already been corrected.

Sample Date: 09/16/93 In House # 09-6205-93		Source: SB4-93		Location:			
Metals Sample Preparation - Water	JAG	09/23/93	17:00	0.000		0.00	
TCLP Extraction, excluding Volatile cpds	JDW	09/20/93	18:00	0.000		0.00	
TCLP Extraction, Volatile cpds. only	JDW	09/21/93	18:00	0.000		0.00	
TPH (heavy fuels) sample preparation	SS	09/21/93	09:00	0.000		0.00	
Pesticide extraction - TCLP	MR	09/29/93	09:00	0.000		0.00	
Herbicide extraction - TCLP	SB	09/27/93	10:00	0.000		0.00	
Base Neutrals - TCLP extraction	SB	09/23/93	08:00	0.000		0.00	
Acid - TCLP extraction	SB	09/23/93	08:00	0.000		0.00	
Lab pH	TW	09/20/93	11:10	5.710	pH Units	0.00 pH Units	150.1
Arsenic - TCLP	KAH	09/28/93	22:49 <	0.500	ppm	0.50 ppm	206.2
Selenium - TCLP	KAH	09/29/93	04:02 <	0.100	ppm	0.10 ppm	270.2
Barium - TCLP	CW	09/24/93	16:20 <	10.000	ppm	10.00 ppm	200.7
Cadmium - TCLP	CW	09/24/93	16:20 <	0.100	ppm	0.10 ppm	200.7
Chromium - TCLP	CW	09/24/93	16:20 <	0.500	ppm	0.50 ppm	200.7
Lead - TCLP	KAH	09/29/93	09:16 <	0.500	ppm	0.50 ppm	239.2
Mercury - TCLP	CMP	09/28/93	14:00 <	0.050	ppm	0.05 ppm	245.1
Silver - TCLP	CW	09/24/93	16:20 <	0.500	ppm	0.50 ppm	200.7
Benzene - TCLP	KG	09/28/93	12:55 <	0.500	mg/l	0.50 mg/l	624.
Carbon Tetrachloride - TCLP	KG	09/28/93	12:55 <	0.500	mg/l	0.50 mg/l	624.
Chlorobenzene - TCLP	KG	09/28/93	12:55 <	100.000	mg/l	100.00 mg/l	624.
Chloroform - TCLP	KG	09/28/93	12:55 <	6.000	mg/l	6.00 mg/l	624.
1,4-Dichlorobenzene - TCLP	KG	09/28/93	12:55 <	7.500	mg/l	7.50 mg/l	624.
1,2-Dichloroethane - TCLP	KG	09/28/93	12:55 <	0.500	mg/l	0.50 mg/l	624.
1,1-Dichloroethylene - TCLP	KG	09/28/93	12:55 <	0.700	mg/l	0.70 mg/l	624.
Methyl Ethyl Ketone - TCLP	KG	09/28/93	12:55 <	200.000	mg/l	200.00 mg/l	624.
Tetrachloroethylene - TCLP	KG	09/28/93	12:55 <	0.700	mg/l	0.70 mg/l	624.
Trichloroethylene - TCLP	KG	09/28/93	12:55 <	0.500	mg/l	0.50 mg/l	624.
Vinyl Chloride - TCLP	KG	09/28/93	12:55 <	0.200	mg/l	0.20 mg/l	624.
O-Cresol - TCLP	AT	09/29/93	14:09 <	200.000	mg/l	200.00 mg/l	625.
M-Cresol - TCLP	AT	09/29/93	14:09 <	200.000	mg/l	200.00 mg/l	625.

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 09/16/93 In House # 09-6205-93		Source: SB4-93 - CONTINUED -		Location:			
P-Cresol - TCLP	AT	09/29/93	14:09 <	200.000	mg/l	200.00 mg/l	625.
Pentachlorophenol - TCLP	AT	09/29/93	14:09 <	100.000	mg/l	100.00 mg/l	625.
2,4,5-Trichlorophenol - TCLP	AT	09/29/93	14:09 <	400.000	mg/l	400.00 mg/l	625.
2,4,6-Trichlorophenol - TCLP	AT	09/29/93	14:09 <	2.000	mg/l	2.00 mg/l	625.
2,4-Dinitrotoluene - TCLP	AT	09/29/93	14:09 <	0.130	mg/l	0.13 mg/l	625.
Hexachlorobenzene - TCLP	AT	09/29/93	14:09 <	0.130	mg/l	0.13 mg/l	625.
Hexachlorobutadiene - TCLP	AT	09/29/93	14:09 <	0.500	mg/l	0.50 mg/l	625.
Hexachloroethane - TCLP	AT	09/29/93	14:09 <	3.000	mg/l	3.00 mg/l	625.
Nitrobenzene - TCLP	AT	09/29/93	14:09 <	0.130	mg/l	0.13 mg/l	625.
Pyridine - TCLP	AT	09/29/93	14:09 <	5.000	mg/l	5.00 mg/l	625.
TPH light fuel, 5030/8015 - solid	KG	09/30/93	12:17 <	10.000	mg/kg	10.00 mg/kg	8015
TPH heavy fuel, 3550/8015 - solid	RK	09/23/93	20:17 <	10.000	mg/kg	10.00 mg/kg	8015
Toxaphene TCLP - liquid	RMK	09/29/93	21:45 <	0.500	mg/l	0.50 mg/l	608
2,4-D TCLP - liquid	RMK	09/30/93	16:08 <	10.000	mg/l	10.00 mg/l	509.
Silvex TCLP - liquid	RMK	09/30/93	16:08 <	1.000	mg/l	1.00 mg/l	509.
Chlordane TCLP - liquid	RMK	09/29/93	21:45 <	0.030	mg/l	0.03 mg/l	608.
Endrin TCLP - liquid	RMK	09/29/93	21:45 <	0.020	mg/l	0.02 mg/l	608.
Heptachlor TCLP - liquid	RMK	09/29/93	21:45 <	8.000	ug/l	8.00 ug/l	608.
Heptachlor Epoxide TCLP - liquid	RMK	09/29/93	21:45 <	8.000	ug/l	8.00 ug/l	608.
Lindane TCLP - liquid	RMK	09/29/93	21:45 <	0.400	mg/l	0.40 mg/l	608.
Methoxychlor TCLP - liquid	RMK	09/29/93	21:45 <	10.000	mg/l	10.00 mg/l	608.
% Solids	MB	09/23/93	09:00	88.400	%	0.01 %	160.3
Chloroethane - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240
Chloromethane - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240
Bromomethane - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Chloride - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240
Methylene Chloride - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Trichlorofluoromethane - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240
1,1-Dichloroethene - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
1,1-Dichloroethane - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,2-Dichloroethene - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloroethane - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
1,1,1-Trichloroethane - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Bromodichloromethane - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloropropane - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,3-Dichloropropene - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Trichloroethene - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Dibromochloromethane - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
1,1,2-trichloroethane - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Cis-1,3-Dichloropropene - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Benzene - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
2-Chloroethylvinyl ether - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240
Bromoform - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
1,1,2,2,-Tetrachloroethane - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Tetrachloroethene - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Toluene - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Chlorobenzene - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Ethylbenzene - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Chloroform - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Acetone - solid	KG	09/29/93	09:32 <	0.200	mg/kg	0.20 mg/kg	8240
Carbon tetrachloride - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
Xylene - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240
2-Butanone - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Acetate - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240
4-methyl-2 pentanone - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240
Styrene - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240
Carbon Disulfide - solid	KG	09/29/93	09:32 <	5.000	ug/kg	5.00 ug/kg	8240
2-Hexanone - solid	KG	09/29/93	09:32 <	10.000	ug/kg	10.00 ug/kg	8240

Comments:
TCLP Extracts were prepared and analyzed according to SW846 method 1311.
Analytical results are reported on a wet-weight basis.

The volatile run was initiated at 18:00.

For Volatile Analysis: Due to the nature of the sample, the sample size was reduced from 5g to 1g. Therefore, the detection limits and less than values are actually 5 times those reported. However, the reported levels for the compounds found have already been corrected.

Laboratory ID # 40111

Very truly yours,

James H. Carr, Jr.
Chemist

FT. STEWART Number Key

JOB NUMBER FST-026

Carr Lab No.	FT STEWART ID
09-6201-93	SB1-9-93
09-6202-93	SB2-9-93
09-6203-93	SB3-9-93
09-6204-93	SB3DUP93
09-6205-93	SB4-93

QUALITY CONTROL FOR LEAD ANALYSIS

SAMPLES NUMBERED: 09-6201-93 through 09-6205-93 analyzed 09/29/93

Date	QC Sample Number	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
09/29/93	WP28-2					30.0	32.9	110
09/29/93	DIG. STD.					50.0	54.5	109
09/29/93	6206	<5.0	<5.0	0	15.0	17.6	17.8	101
09/29/93	6208	6.5	6.3	3.1	15.0	21.6	21.7	101

QUALITY CONTROL FOR ARSENIC ANALYSIS

SAMPLES NUMBERED: 09-6201-93 through 09-6205-93 analyzed 09/28/93

Date	QC Sample Number	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
09/28/93	WP28-2					86.0	85.4	98
09/28/93	6206dig	<5.0	<5.0	0	15.0	15.0	16.3	109
09/28/93	6207dig	5.0	11.0	75	50.0	61.0	63.0	103
09/28/93	6208	<5.0	<5.0	0	15.0	16.0	16.4	102

QUALITY CONTROL FOR SELENIUM ANALYSIS

SAMPLES NUMBERED: 09-6201-93 through 09-6205-93 analyzed 09/29/93

Date	QC Sample Number	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
09/29/93	WP28-2					11.0	11.3	102
09/29/93	6206	<5.0	<5.0	0	15.0	15.0	14.9	97
09/29/93	6207DIG	<5.0	<5.0	0	50.0	50.0	49.2	98

QUALITY CONTROL FOR ICP ANALYSIS

SAMPLES NUMBERED: 09-6201-93 through 09-6205 analyzed 09/24/93.

Date	Element	QC Sample Number	Val. 1 (mg/l)	Val. 2 (mg/l)	% RPD	Spike Conc.	True Value	Obs. Value	% Rec.
09/24/93	Ba	ICP-07					1.00	0.992	99
09/24/93	Cr	ICP-19					1.00	0.950	95
09/24/93	Cd	ICP-19					1.00	1.01	101
09/24/93	Ag	ICP-07					1.00	1.10	110
09/24/93	Cr	6161	0.075	0.078	3.9	0.10	0.175	0.164	86
09/24/93	Cd	6161	<.01	<.01	0	0.10	0.10	0.084	84
09/24/93	Ag	6118	<.05	<.05	0	0.10	0.10	0.112	112
09/24/93	Ba	6161	0.20	0.21	4.9	0.10	0.300	0.292	92

C1-8474

QUALITY CONTROL FOR MERCURY ANALYSIS

SAMPLES NUMBERED: 09-6201-93 through 09-6205-93 analyzed 09/28/93;

Date	QC Sample Number	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
09/28/93	WP25-1					0.60	0.58	96

09/28/93	6194	<0.2	<0.2	0	1.0	1.00	0.96	96
09/28/93	6209	<0.2	<0.2	0	1.0	1.00	0.86	86

QUALITY CONTROL FOR PESTICIDES

SAMPLES NUMBERED: 09-6201-93 through 09-6205-93 analyzed 09/29/93;

SPIKE RECOVERY DATA FOR 09/29/93

SPIKE QC SAMPLE NUMBER: SPK092993 DUPLICATE SAMPLE NO: 09620793

Analyte	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
Alpha-BHC	<.02	<.02	0	0.08	0.08	0.125	156
Gamma-BHC	<.02	<.02	0	0.08	0.08	0.105	131
Beta-BHC	<.02	<.02	0	0.08	0.08	0.093	116
Heptachlor	<.02	<.02	0	0.08	0.08	0.116	145
Delta-BHC	<.02	<.02	0	0.08	0.08	0.068	85
Aldrin	<.02	<.02	0	0.08	0.08	0.108	135
Heptachlor Epox.	<.02	<.02	0	0.08	0.08	0.098	122
Endosulfan I	<.02	<.02	0	0.08	0.08	0.091	114
p,p - DDE	<.02	<.02	0	0.08	0.08	0.095	119
Dieldrin	<.02	<.02	0	0.08	0.08	0.089	111
Endrin	<.02	<.02	0	0.08	0.08	0.079	99
Endosulfan II	<.02	<.02	0	0.08	0.08	0.070	88
Endrin Aldehyde	<.02	<.02	0	0.08	0.08	0.063	79
Endosulfan Sulf.	<.02	<.02	0	0.08	0.08	0.052	65
Methoxychlor	<.02	<.02	0	0.08	0.08	0.104	130
Endrin Ketone	<.02	<.02	0	0.16	0.16	0.189	118

BLANK DATA FOR PESTICIDES

All analytes less than 0.05 ug/L on all dates.

SURROGATE RECOVERIES FOR PESTICIDES

Sample Date	Sample Number	Theoretical Conc. (ug/l)	Observed Conc. (ug/l)	Percent Recovery
09/29/93	BLANK	1.0	0.40	40
09/29/93	09-6201-93	1.0	0.28	28
09/29/93	09-6202-93	1.0	0.50	50
09/29/93	09-6203-93	1.0	0.47	47
09/29/93	09-6204-93	1.0	0.41	41
09/29/93	09-6205-93	1.0	0.61	61
09/29/93	09-6207-93	1.0	0.52	52
09/29/93	09-6207DUP	1.0	0.49	49
09/29/93	092993SPK	1.0	0.64	64

* Surrogate recoveries were low for this run. Data is accepted based on spike and duplicate values. New surrogate has been prepared for future analyses.

C1-8446

QUALITY CONTROL FOR HERBICIDES

SAMPLES NUMBERED: 09-6201-93 through 09-6205-93 analyzed 09/30/93;

SPIKE QC SAMPLE NUMBER: 092793 DUPLICATE SAMPLE NUMBER 09620793

Analyte	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
2,4-D	<.05	<.05	0	2.00	2.00	1.77	89
Silvex	<.05	<.05	0	0.20	0.20	0.116	58

SURROGATE RECOVERIES FOR HERBICIDES

Sample Date	Sample Number	Theoretical Conc. (ug/l)	Percent Recovery
09/30/93	BLANK	4.0	120
09/30/93	09-6201-93	4.0	117
09/30/93	09-6202-93	4.0	115
09/30/93	09-6203-93	4.0	129
09/30/93	09-6204-93	4.0	114
09/30/93	09-6205-93	4.0	97
09/30/93	09-6207-93	4.0	97
09/30/93	09-6207DUP	4.0	116
09/30/93	092393SPK	4.0	87

U-847

QUALITY CONTROL FOR VOLATILES

SAMPLES NUMBERED: 09-6201-93 through 09-6205-93 analyzed 09/28/93 for TCLP.
SAMPLES NUMBERED: 09-5201-93 through 09-6205-93 analyzed 09/29/93 for total volatiles.

SPIKE RECOVERY DATA FOR 09/28/93

SPIKE QC SAMPLE NUMBER: 09620693 spiked duplicate sample

Analyte	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
1,1 Dichloroethene	28.9	34.7	18.2	50	50	34.7	69
Trichloroethene	51.3	60.7	16.8	50	50	51.3	103
Benzene	39.5	45.4	13.9	50	50	45.4	91
Toluene	45.4	53.7	14.3	50	50	53.7	107
Chlorobenzene	39.7	46.8	16.4	50	50	46.8	94

SPIKE RECOVERY DATA FOR 09/29/93

SPIKE QC SAMPLE NUMBER: 09620793 spiked duplicate sample.

Analyte	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
1,1 Dichloroethene	35.9	35.7	.56	50	50	35.9	72
Trichloroethene	57.9	49.7	15.2	50	50	49.7	99
Benzene	44.8	44.3	1.1	50	50	44.8	90
Toluene	49.7	41.6	17.7	50	50	49.7	99
Chlorobenzene	44.5	45.5	2.2	50	50	45.5	91

BTEX, LIGHT TPH RECOVERY DATA .

SAMPLES NUMBERED: 09-6201-93 through 09-6205-93 analyzed 09-30/93

SPIKE QC SAMPLE NUMBER: 09620193

Analyte	Val. 1 (ug/Kg)	Val. 2 (ug/Kg)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
Total Lt. TPH	<5	<5	0	14	14.0	14.4	103

U-6485

BLANK DATA FOR VOLATILES

All analytes on all dates <5 ug/L.

SURROGATE RECOVERIES FOR VOLATILES, PERCENT RECOVERY

Sample Date	Sample Number	1,2 dichloro-ethane d-4	Toluene d-8	Bromofloro benzene
09/28/93	BLANK	84	99	77
09/28/93	09-6201-93	75	109	80
09/28/93	09-6202-93	80	100	74
09/28/93	09-6203-93	76	99	70
09/28/93	09-6204-93	91	110	72
09/28/93	09-6205-93	81	100	66
09/28/93	09-6206-93	84	106	77
09/28/93	09-6206SPK	84	103	67
09/28/93	09-6206SPKDUP	84	103	68
09/29/93	BLANK	94	109	88
09/29/93	09-6201-93	79	93	75
09/29/93	09-6202-93	82	97	79
09/29/93	09-6203-93	67	83	79
09/29/93	09-6204-93	90	104	89
09/29/93	09-6205-93	85	101	79
09/29/93	09-6207-93	86	99	79
09/29/93	09-6207SPK	91	108	83
09/29/93	09-6207SPKDUP	70	103	73
09/30/93	BLANK	99	98	96
09/30/93	09-6201-93	97	90	86
09/30/93	09-6202-93	91	103	98
09/30/93	09-6203-93	99	88	105
09/30/93	09-6204-93	89	92	106
09/30/93	09-6205-93	93	84	78
09/30/93	09-6201DUP	87	81	75
09/30/93	09-6201SPK	99	89	96

ACIDS AND BASE-NEUTRALS QUALITY CONTROL DATA

SAMPLE NUMBERS: 09-6201-93 through 09-6205-93 analyzed 09/29/93;

DATE: 09/29/93
QC SAMPLE: SPK092393 DUPLICATE SAMPLE NO.: 09620393

Analyte	Dup. 1 ug/l	Dup. 2 ug/l	% RPD	Spike (ug/l)	True Value	Observed Value	Percent Recovery
1,4-Dichlorobenzene	<10	<10	0	100	100	50.5	51
2,4 Dinitrotoluene	<10	<10	0	100	100	101	101
Pentachlorophenol	<10	<10	0	100	100	64.0	64

C-8-50

SURROGATE RECOVERIES FOR BASE-NEUTRALS
PERCENT RECOVERY

Sample Date	Sample Number	Nitrobenzene-d-5	2-Fluoro biphenyl	Terphenyl d-14	Phenol d-5	2-Fluoro phenol	2,4,6 Tribromo phenol
09/29/93	BLANK	39	81	80	19	39	44
09/29/93	09-6201-93	82	71	103	28	58	50
09/29/93	09-6202-93	9*	50	63	19	33	44
09/29/93	09-6203-93	83	71	94	33	56	71
09/14/93	09-6204-93	35	73	83	39	62	91
09/29/93	09-6205-93	35	60	76	34	52	84
09/29/93	09-6203DUP	73	67	97	34	58	80
09/29/93	SPK092393	54	71	66	23	40	71

BLANK DATA FOR ACIDS AND BASE NEUTRALS

All Compounds less than the minimum detectable level.

HEAVY TPH RECOVERY DATA

SAMPLES NUMBERED: 09-6201-93 through 09-6205-93 analyzed 09/23/93

SPIKE QC SAMPLE NUMBER: 09609893 SPIKED DUPLICATE

Analyte	Val. 1 (ug/Kg)	Val. 2 (ug/Kg)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
Heavy TPH	1148	946	19.3	800	800	946	111

SURROGATE RECOVERIES FOR HEAVY TPH
PERCENT RECOVERY

Sample Date	Sample Number	Percent Recovery
09/23/93	BLANK	101
09/23/93	09-6201-93	109
09/23/93	09-6202-93	145
09/23/93	09-6203-93	106
09/23/93	09-6204-93	123
09/23/93	09-6205-93	111
09/23/93	09-6098-93	137
09/23/93	09-6098SPK	198*
09/23/93	09-6098SPKDUP	131

* Spike surrogate value out of range. Data accepted based on all other QC data.

CARR LABORATORIES

CHAIN OF CUSTODY RECORD

Client CESAS
Contact JON NICHOLSON
Address PO Box 889, SAVANNAH, GA 31402
Collected By JASON SMITH

Project No. FST-026
Phone No. 912-652-5675
Fax No. 912-652-5311
Client P.O.# ___

MT (Matrix Type)	AP (Analytical Program)
L=Liquid	W=Wastewater
S=Soil	G=Groundwater
O=Oil	D=Drinking Water
X=Other	S=Solid/Haz. Waste
	N=Nonregulated

Carr's Lab No.	Sample Source	Sample Location	Date/Time	Well	Grab	Composite	MT	AP	Number of Containers	Preserved Y or N	Analyses Requested
											09-6201-93
FST026-SB1-9-93	FT STEWART	FST-026	9/16/93/0825		X		S		5	ICE Y	VOC 8240, TCLP(FULL), TPH MOD HEAVY, TPH MOD LIGHT, pH
FST026-SB2-9-93	FT STEWART	FST-026	9/16/93/0900		X		S		5	ICE Y	" " " " 6202 "
FST-026-SB3-9-93	FT STEWART	FST-026	9/16/93/0940		X		S		5	ICE Y	" " " " 6203 "
FST-026-SB3-DUP-9-93	FT STEWART	FST-026	9/16/93/0940		X		S		4	ICE Y	VOC 8240, TCLP (FULL), TPH MOD HEAVY, TPH MOD LIGHT 6204
FST-026-SB4-93	FT STEWART	FST-026	9/16/93/1020		X		S		5	ICE Y	VOC 8240, TCLP (FULL), TPH MOD HEAVY, TPH MOD LIGHT, pH 6205
											TEMP. 1.5°C; ice visible

Relinquished By	Received By	Date	Time
1. Henry Barton	Henry Barton	9/17/93	1525
2. Henry Barton	D. Hutto	9/17/93	1915
3.			
Received In Lab By	D. Hutto	9-17-93	19:15

JAMES H. CARR & ASSOCIATES, INC.
Office and Laboratories
P.O. Box 90209
Columbia, South Carolina 29290
(803) 776-7789 Fax: 783-2192

James H. Carr & Associates, Inc.

Office & Laboratories
P.O. Box 90209
Columbia, SC 29290
(803) 776-7789
(800) 435-3995

12/14/93

Ms. Toni Nicholson
Corps of Engineers
PO Box 889
Savannah, GA 31402

Dear Ms. Nicholson:

The following are the results of the parameters you requested we check on your FST-026 samples listed below.

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 11/09/93 In House # 11-8141-93 Source: 5A-11-93 Location: FT.STEWART							
Metals Sample Preparation - water	VB	11/18/93	17:00	0.000		0.00	
TCLP Extraction, excluding Volatile cpds	JDW	11/15/93	15:00	0.000		0.00	
TCLP Extraction, Volatile cpds. only	JDW	11/15/93	15:00	0.000		0.00	
TPH (heavy fuels) sample preparation	SS	11/15/93	14:00	0.000		0.00	
Pesticide extraction - TCLP	MR	11/24/93	09:00	0.000		0.00	
Herbicide extraction - TCLP	MR	11/24/93	14:00	0.000		0.00	
Base Neutrals - TCLP extraction	SB	11/18/93	09:00	0.000		0.00	
Acid - TCLP extraction	SB	11/18/93	09:00	0.000		0.00	
Lab pH	TW	11/11/93	10:55	4.870	pH Units	0.00 pH Units	150.1
Arsenic - TCLP	JDW	11/24/93	10:17	< 0.500	ppm	0.50 ppm	206.2
Selenium - TCLP	JDW	11/23/93	18:44	< 0.100	ppm	0.10 ppm	270.2
Barium - TCLP	CW	11/29/93	13:06	< 10.000	ppm	10.00 ppm	200.7
Cadmium - TCLP	CW	11/29/93	13:06	< 0.100	ppm	0.10 ppm	200.7
Chromium - TCLP	CW	11/29/93	13:06	< 0.500	ppm	0.50 ppm	200.7
Lead - TCLP	JDW	11/24/93	01:51	< 0.500	ppm	0.50 ppm	239.2
Mercury - TCLP	VTB	11/30/93	09:00	< 0.050	ppm	0.05 ppm	245.1
Silver - TCLP	CW	11/29/93	13:06	< 0.500	ppm	0.50 ppm	200.7
Benzene - TCLP	KG	11/22/93	10:28	< 0.500	mg/l	0.50 mg/l	624.
Carbon Tetrachloride - TCLP	KG	11/22/93	10:28	< 0.500	mg/l	0.50 mg/l	624.
Chlorobenzene - TCLP	KG	11/22/93	10:28	< 100.000	mg/l	100.00 mg/l	624.
Chloroform - TCLP	KG	11/22/93	10:28	< 6.000	mg/l	6.00 mg/l	624.
1,4-Dichlorobenzene - TCLP	KG	11/22/93	10:28	< 7.500	mg/l	7.50 mg/l	624.
1,2-Dichloroethane - TCLP	KG	11/22/93	10:28	< 0.500	mg/l	0.50 mg/l	624.
1,1-Dichloroethylene - TCLP	KG	11/22/93	10:28	< 0.700	mg/l	0.70 mg/l	624.
Methyl Ethyl Ketone - TCLP	KG	11/22/93	10:28	< 200.000	mg/l	200.00 mg/l	624.
Tetrachloroethylene - TCLP	KG	11/22/93	10:28	< 0.700	mg/l	0.70 mg/l	624.
Trichloroethylene - TCLP	KG	11/22/93	10:28	< 0.500	mg/l	0.50 mg/l	624.
Vinyl Chloride - TCLP	KG	11/22/93	10:28	< 0.200	mg/l	0.20 mg/l	624.
O-Cresol - TCLP	AT	11/22/93	14:04	< 200.000	mg/l	200.00 mg/l	625.
M-Cresol - TCLP	AT	11/22/93	14:04	< 200.000	mg/l	200.00 mg/l	625.
P-Cresol - TCLP	AT	11/22/93	14:04	< 200.000	mg/l	200.00 mg/l	625.
Pentachlorophenol - TCLP	AT	11/22/93	14:04	< 100.000	mg/l	100.00 mg/l	625.
2,4,5-Trichlorophenol - TCLP	AT	11/22/93	14:04	< 400.000	mg/l	400.00 mg/l	625.
2,4,6-Trichlorophenol - TCLP	AT	11/22/93	14:04	< 2.000	mg/l	2.00 mg/l	625.
2,4-Dinitrotoluene - TCLP	AT	11/22/93	14:04	< 0.130	mg/l	0.13 mg/l	625.
Hexachlorobenzene - TCLP	AT	11/22/93	14:04	< 0.130	mg/l	0.13 mg/l	625.
Hexachlorobutadiene - TCLP	AT	11/22/93	14:04	< 0.500	mg/l	0.50 mg/l	625.
Hexachloroethane - TCLP	AT	11/22/93	14:04	< 3.000	mg/l	3.00 mg/l	625.
Nitrobenzene - TCLP	AT	11/22/93	14:04	< 0.130	mg/l	0.13 mg/l	625.
Pyridine - TCLP	AT	11/22/93	14:04	< 5.000	mg/l	5.00 mg/l	625.
TPH light fuel, 5030/8015 - solid	KG	11/22/93	11:59	< 10.000	mg/kg	10.00 mg/kg	8015
TPH heavy fuel, 3550/8015 - solid	CCS	11/17/93	12:53	25600.000	mg/kg	10.00 mg/kg	8015

4-855

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 11/09/93 In House # 11-8141-93		Source: 5A-11-93 - CONTINUED -		Location: FT.STEWART			
Toxaphene TCLP - liquid	RMK	12/10/93 23:23	<	0.500	mg/l	0.50 mg/l	608
2,4-D TCLP - liquid	RMK	12/06/93 21:44	<	10.000	mg/l	10.00 mg/l	509.
Silvex TCLP - liquid	RMK	12/06/93 21:44	<	1.000	mg/l	1.00 mg/l	509.
Chlordane TCLP - liquid	RMK	12/10/93 23:23	<	0.030	mg/l	0.03 mg/l	608.
Endrin TCLP - liquid	RMK	12/10/93 23:23	<	0.020	mg/l	0.02 mg/l	608.
Heptachlor TCLP - liquid	RMK	12/10/93 23:23	<	8.000	ug/l	8.00 ug/l	608.
Heptachlor Epoxide TCLP - liquid	RMK	12/10/93 23:23	<	8.000	ug/l	8.00 ug/l	608.
Lindane TCLP - liquid	RMK	12/10/93 23:23	<	0.400	mg/l	0.40 mg/l	608.
Methoxychlor TCLP - liquid	RMK	12/10/93 23:23	<	10.000	mg/l	10.00 mg/l	608.
% Solids	MB	11/16/93 09:00		77.000	%	0.01 %	160.3
Chloromethane - solid	KG	11/22/93 16:04	<	10.000	ug/kg	10.00 ug/kg	8240
Bromomethane - solid	KG	11/22/93 16:04	<	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Chloride - solid	KG	11/22/93 16:04	<	10.000	ug/kg	10.00 ug/kg	8240
Methylene Chloride - solid	KG	11/22/93 16:04		120.000	ug/kg	5.00 ug/kg	8240
Trichlorofluoromethane - solid	KG	11/22/93 16:04	<	10.000	ug/kg	10.00 ug/kg	8240
1,1-Dichloroethene - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
1,1-Dichloroethane - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,2-Dichloroethene - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloroethane - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,1-Trichloroethane - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Bromodichloromethane - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloropropane - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,3-Dichloropropene - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Trichloroethene - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Dibromochloromethane - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,2-trichloroethane - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Cis-1,3-Dichloropropene - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Benzene - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
2-Chloroethylvinyl ether - solid	KG	11/22/93 16:04	<	10.000	ug/kg	10.00 ug/kg	8240
Bromoform - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,2,2,-Tetrachloroethane - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Tetrachloroethene - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Toluene - solid	KG	11/22/93 16:04		35.200	ug/kg	5.00 ug/kg	8240
Chlorobenzene - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Ethylbenzene - solid	KG	11/22/93 16:04		141.000	ug/kg	5.00 ug/kg	8240
Chloroform - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Acetone - solid	KG	11/22/93 16:04		144.000	ug/kg	0.20 mg/kg	8240
Carbon tetrachloride - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
Xylene - solid	KG	11/22/93 16:04		170.000	ug/kg	10.00 ug/kg	8240
2-Butanone - solid	KG	11/22/93 16:04	<	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Acetate - solid	KG	11/22/93 16:04	<	10.000	ug/kg	10.00 ug/kg	8240
4-methyl-2 pentanone - solid	KG	11/22/93 16:04	<	10.000	ug/kg	10.00 ug/kg	8240
Styrene - solid	KG	11/22/93 16:04	<	10.000	ug/kg	10.00 ug/kg	8240
Carbon Disulfide - solid	KG	11/22/93 16:04	<	5.000	ug/kg	5.00 ug/kg	8240
2-Hexanone - solid	KG	11/22/93 16:04	<	10.000	ug/kg	10.00 ug/kg	8240

Comments:
Analytical results are reported on a wet-weight basis.
TCLP Extracts were prepared and analyzed according to SW846 method 1311.

The volatile run was initiated at 12:15.

Sample Date: 11/09/93 In House # 11-8142-93		Source: 5B-11-93		Location: FT.STEWART			
Metals Sample Preparation - Water	VB	11/18/93 17:00		0.000		0.00	
TCLP Extraction, excluding Volatile cpds	JDW	11/15/93 15:00		0.000		0.00	
TCLP Extraction, Volatile cpds. only	JDW	11/15/93 15:00		0.000		0.00	
TPH (heavy fuels) sample preparation	SS	11/15/93 14:00		0.000		0.00	
Pesticide extraction - TCLP	MR	11/24/93 09:00		0.000		0.00	
Herbicide extraction - TCLP	MR	11/24/93 14:00		0.000		0.00	
Base Neutrals - TCLP extraction	SB	11/18/93 09:00		0.000		0.00	
Acid - TCLP extraction	SB	11/18/93 09:00		0.000		0.00	
Lab pH	TW	11/11/93 10:55		5.580	pH Units	0.00 pH Units	150.1
Arsenic - TCLP	JDW	11/24/93 10:24	<	0.500	ppm	0.50 ppm	206.2
Selenium - TCLP	JDW	11/23/93 18:50	<	0.100	ppm	0.10 ppm	270.2

Sample Date: 11/09/93 In House # 11-8142-93 Source: 5B-11-93 Location: FT.STEWART
- CONTINUED -

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Barium - TCLP	CW	11/29/93	13:13 <	10.000	ppm	10.00 ppm	200.7
Cadmium - TCLP	CW	11/29/93	13:13 <	0.100	ppm	0.10 ppm	200.7
Chromium - TCLP	CW	11/29/93	13:13 <	0.500	ppm	0.50 ppm	200.7
Lead - TCLP	JDW	11/24/93	02:12 <	0.500	ppm	0.50 ppm	239.2
Mercury - TCLP	VTB	11/30/93	09:00 <	0.050	ppm	0.05 ppm	245.1
Silver - TCLP	CW	11/29/93	13:13 <	0.500	ppm	0.50 ppm	200.7
Benzene - TCLP	KG	11/22/93	10:55 <	0.500	mg/l	0.50 mg/l	624.
Carbon Tetrachloride - TCLP	KG	11/22/93	10:55 <	0.500	mg/l	0.50 mg/l	624.
Chlorobenzene - TCLP	KG	11/22/93	10:55 <	100.000	mg/l	100.00 mg/l	624.
Chloroform - TCLP	KG	11/22/93	10:55 <	6.000	mg/l	6.00 mg/l	624.
1,4-Dichlorobenzene - TCLP	KG	11/22/93	10:55 <	7.500	mg/l	7.50 mg/l	624.
1,2-Dichloroethane - TCLP	KG	11/22/93	10:55 <	0.500	mg/l	0.50 mg/l	624.
1,1-Dichloroethylene - TCLP	KG	11/22/93	10:55 <	0.700	mg/l	0.70 mg/l	624.
Methyl Ethyl Ketone - TCLP	KG	11/22/93	10:55 <	200.000	mg/l	200.00 mg/l	624.
Tetrachloroethylene - TCLP	KG	11/22/93	10:55 <	0.700	mg/l	0.70 mg/l	624.
Trichloroethylene - TCLP	KG	11/22/93	10:55 <	0.500	mg/l	0.50 mg/l	624.
Vinyl Chloride - TCLP	KG	11/22/93	10:55 <	0.200	mg/l	0.20 mg/l	624.
O-Cresol - TCLP	AT	11/22/93	15:05 <	200.000	mg/l	200.00 mg/l	625.
M-Cresol - TCLP	AT	11/22/93	15:05 <	200.000	mg/l	200.00 mg/l	625.
P-Cresol - TCLP	AT	11/22/93	15:05 <	200.000	mg/l	200.00 mg/l	625.
Pentachlorophenol - TCLP	AT	11/22/93	15:05 <	100.000	mg/l	100.00 mg/l	625.
2,4,5-Trichlorophenol - TCLP	AT	11/22/93	15:05 <	400.000	mg/l	400.00 mg/l	625.
2,4,6-Trichlorophenol - TCLP	AT	11/22/93	15:05 <	2.000	mg/l	2.00 mg/l	625.
2,4-Dinitrotoluene - TCLP	AT	11/22/93	15:05 <	0.130	mg/l	0.13 mg/l	625.
Hexachlorobenzene - TCLP	AT	11/22/93	15:05 <	0.130	mg/l	0.13 mg/l	625.
Hexachlorobutadiene - TCLP	AT	11/22/93	15:05 <	0.500	mg/l	0.50 mg/l	625.
Hexachloroethane - TCLP	AT	11/22/93	15:05 <	3.000	mg/l	3.00 mg/l	625.
Nitrobenzene - TCLP	AT	11/22/93	15:05 <	0.130	mg/l	0.13 mg/l	625.
Pyridine - TCLP	AT	11/22/93	15:05 <	5.000	mg/l	5.00 mg/l	625.
TPH light fuel, 5030/8015 - solid	KG	11/22/93	12:30	201.000	mg/kg	10.00 mg/kg	8015
TPH heavy fuel, 3550/8015 - solid	CCS	11/17/93	13:54	4120.000	mg/kg	10.00 mg/kg	8015
Toxaphene TCLP - liquid	RMK	12/11/93	00:02 <	0.500	mg/l	0.50 mg/l	608
2,4-D TCLP - liquid	RMK	12/06/93	22:09 <	10.000	mg/l	10.00 mg/l	509.
Silvex TCLP - liquid	RMK	12/06/93	22:09 <	1.000	mg/l	1.00 mg/l	509.
Chlordane TCLP - liquid	RMK	12/11/93	00:02 <	0.030	mg/l	0.03 mg/l	608.
Endrin TCLP - liquid	RMK	12/11/93	00:02 <	0.020	mg/l	0.02 mg/l	608.
Heptachlor TCLP - liquid	RMK	12/11/93	00:02 <	8.000	ug/l	8.00 ug/l	608.
Heptachlor Epoxide TCLP - liquid	RMK	12/11/93	00:02 <	8.000	ug/l	8.00 ug/l	608.
Lindane TCLP - liquid	RMK	12/11/93	00:02 <	0.400	mg/l	0.40 mg/l	608.
Methoxychlor TCLP - liquid	RMK	12/11/93	00:02 <	10.000	mg/l	10.00 mg/l	608.
% Solids	MB	11/16/93	09:00	81.000	%	0.01 %	160.3
Chloromethane - solid	KG	11/22/93	16:06 <	10.000	ug/kg	10.00 ug/kg	8240
Bromomethane - solid	KG	11/22/93	16:06 <	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Chloride - solid	KG	11/22/93	16:06 <	10.000	ug/kg	10.00 ug/kg	8240
Methylene Chloride - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
Trichlorofluoromethane - solid	KG	11/22/93	16:06 <	10.000	ug/kg	10.00 ug/kg	8240
1,1-Dichloroethene - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
1,1-Dichloroethane - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,2-Dichloroethene - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloroethane - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
1,1,1-Trichloroethane - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
Bromodichloromethane - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloropropane - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,3-Dichloropropene - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
Trichloroethene - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
Dibromochloromethane - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
1,1,2-trichloroethane - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
Cis-1,3-Dichloropropene - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
Benzene - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
2-Chloroethylvinyl ether - solid	KG	11/22/93	16:06 <	10.000	ug/kg	10.00 ug/kg	8240
Bromoform - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
1,1,2,2,-Tetrachloroethane - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
Tetrachloroethene - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240
Toluene - solid	KG	11/22/93	16:06	390.000	ug/kg	5.00 ug/kg	8240
Chlorobenzene - solid	KG	11/22/93	16:06 <	5.000	ug/kg	5.00 ug/kg	8240

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 11/09/93 In House # 11-8142-93		Source: 58-11-93		Location: FT.STEWART			
		- CONTINUED -					
Ethylbenzene - solid	KG	11/22/93 16:06		2040.000	ug/kg	5.00 ug/kg	8240
Chloroform - solid	KG	11/22/93 16:06	<	5.000	ug/kg	5.00 ug/kg	8240
Acetone - solid	KG	11/22/93 16:06		189.000	ug/kg	0.20 mg/kg	8240
Carbon tetrachloride - solid	KG	11/22/93 16:06	<	5.000	ug/kg	5.00 ug/kg	8240
Xylene - solid	KG	11/22/93 16:06		1910.000	ug/kg	10.00 ug/kg	8240
2-Butanone - solid	KG	11/22/93 16:06	<	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Acetate - solid	KG	11/22/93 16:06	<	10.000	ug/kg	10.00 ug/kg	8240
4-methyl-2 pentanone - solid	KG	11/22/93 16:06	<	10.000	ug/kg	10.00 ug/kg	8240
Styrene - solid	KG	11/22/93 16:06	<	10.000	ug/kg	10.00 ug/kg	8240
Carbon Disulfide - solid	KG	11/22/93 16:06	<	5.000	ug/kg	5.00 ug/kg	8240
2-Hexanone - solid	KG	11/22/93 16:06	<	10.000	ug/kg	10.00 ug/kg	8240

Comments:
Analytical results are reported on a wet-weight basis.
TCLP Extracts were prepared and analyzed according to SW846 method 1311.

The volatile run was initiated at 12:42.

Sample Date: 11/09/93 In House # 11-8143-93		Source: 6A-11-93		Location: FT.STEWART			
Metals Sample Preparation - water	VB	11/18/93 17:00		0.000		0.00	
TCLP Extraction, excluding Volatile cpds	JDW	11/15/93 15:00		0.000		0.00	
TCLP Extraction, Volatile cpds. only	JDW	11/15/93 15:00		0.000		0.00	
TPH (heavy fuels) sample preparation	SS	11/15/93 14:00		0.000		0.00	
Pesticide extraction - TCLP	MR	11/24/93 09:00		0.000		0.00	
Herbicide extraction - TCLP	MR	11/24/93 14:00		0.000		0.00	
Base Neutrals - TCLP extraction	SB	11/18/93 09:00		0.000		0.00	
Acid - TCLP extraction	SB	11/18/93 09:00		0.000		0.00	
Lab pH	TW	11/11/93 10:55		5.570	pH Units	0.00 pH Units	150.1
Arsenic - TCLP	JDW	11/24/93 10:30	<	0.500	ppm	0.50 ppm	206.2
Selenium - TCLP	JDW	11/23/93 18:57	<	0.100	ppm	0.10 ppm	270.2
Barium - TCLP	CW	11/29/93 13:02	<	10.000	ppm	10.00 ppm	200.7
Cadmium - TCLP	CW	11/29/93 13:02	<	0.100	ppm	0.10 ppm	200.7
Chromium - TCLP	CW	11/29/93 13:02	<	0.500	ppm	0.50 ppm	200.7
Lead - TCLP	JDW	11/24/93 02:18	<	0.500	ppm	0.50 ppm	239.2
Mercury - TCLP	VTB	11/30/93 09:00	<	0.050	ppm	0.05 ppm	245.1
Silver - TCLP	CW	11/29/93 13:02	<	0.500	ppm	0.50 ppm	200.7
Benzene - TCLP	KG	11/22/93 11:22	<	0.500	mg/l	0.50 mg/l	624.
Carbon Tetrachloride - TCLP	KG	11/22/93 11:22	<	0.500	mg/l	0.50 mg/l	624.
Chlorobenzene - TCLP	KG	11/22/93 11:22	<	100.000	mg/l	100.00 mg/l	624.
Chloroform - TCLP	KG	11/22/93 11:22	<	6.000	mg/l	6.00 mg/l	624.
1,4-Dichlorobenzene - TCLP	KG	11/22/93 11:22	<	7.500	mg/l	7.50 mg/l	624.
1,2-Dichloroethane - TCLP	KG	11/22/93 11:22	<	0.500	mg/l	0.50 mg/l	624.
1,1-Dichloroethylene - TCLP	KG	11/22/93 11:22	<	0.700	mg/l	0.70 mg/l	624.
Methyl Ethyl Ketone - TCLP	KG	11/22/93 11:22	<	200.000	mg/l	200.00 mg/l	624.
Tetrachloroethylene - TCLP	KG	11/22/93 11:22	<	0.700	mg/l	0.70 mg/l	624.
Trichloroethylene - TCLP	KG	11/22/93 11:22	<	0.500	mg/l	0.50 mg/l	624.
Vinyl Chloride - TCLP	KG	11/22/93 11:22	<	0.200	mg/l	0.20 mg/l	624.
O-Cresol - TCLP	AT	11/22/93 16:06	<	200.000	mg/l	200.00 mg/l	625.
M-Cresol - TCLP	AT	11/22/93 16:06	<	200.000	mg/l	200.00 mg/l	625.
P-Cresol - TCLP	AT	11/22/93 16:06	<	200.000	mg/l	200.00 mg/l	625.
Pentachlorophenol - TCLP	AT	11/22/93 16:06	<	100.000	mg/l	100.00 mg/l	625.
2,4,5-Trichlorophenol - TCLP	AT	11/22/93 16:06	<	400.000	mg/l	400.00 mg/l	625.
2,4,6-Trichlorophenol - TCLP	AT	11/22/93 16:06	<	2.000	mg/l	2.00 mg/l	625.
2,4-Dinitrotoluene - TCLP	AT	11/22/93 16:06	<	0.130	mg/l	0.13 mg/l	625.
Hexachlorobenzene - TCLP	AT	11/22/93 16:06	<	0.130	mg/l	0.13 mg/l	625.
Hexachlorobutadiene - TCLP	AT	11/22/93 16:06	<	0.500	mg/l	0.50 mg/l	625.
Hexachloroethane - TCLP	AT	11/22/93 16:06	<	3.000	mg/l	3.00 mg/l	625.
Nitrobenzene - TCLP	AT	11/22/93 16:06	<	0.130	mg/l	0.13 mg/l	625.
Pyridine - TCLP	AT	11/22/93 16:06	<	5.000	mg/l	5.00 mg/l	625.
TPH light fuel, 5030/8015 - solid	KG	11/22/93 13:01	<	10.000	mg/kg	10.00 mg/kg	8015
TPH heavy fuel, 3550/8015 - solid	CCS	11/17/93 01:29		38.900	mg/kg	10.00 mg/kg	8015
Toxaphene TCLP - liquid	RMK	12/01/93 02:06	<	0.500	mg/l	0.50 mg/l	608
2,4-D TCLP - liquid	RMK	12/01/93 02:06	<	10.000	mg/l	10.00 mg/l	509.
Silvex TCLP - liquid	RMK	12/01/93 02:06	<	1.000	mg/l	1.00 mg/l	509.

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 11/09/93 In House # 11-8143-93		Source: 6A-11-93 - CONTINUED -		Location: FT.STEWART			
Chlordane TCLP - liquid	RMK	12/01/93 02:06	<	0.030	mg/l	0.03 mg/l	608.
Endrin TCLP - liquid	RMK	12/01/93 02:06	<	0.020	mg/l	0.02 mg/l	608.
Heptachlor TCLP - liquid	RMK	12/01/93 02:06	<	8.000	ug/l	8.00 ug/l	608.
Heptachlor Epoxide TCLP - liquid	RMK	12/01/93 02:06	<	8.000	ug/l	8.00 ug/l	608.
Lindane TCLP - liquid	RMK	12/01/93 02:06	<	0.400	mg/l	0.40 mg/l	608.
Methoxychlor TCLP - liquid	RMK	12/01/93 02:06	<	10.000	mg/l	10.00 mg/l	608.
% Solids	MB	11/16/93 09:00		86.800	%	0.01 %	160.3
Chloromethane - solid	KG	11/22/93 16:08	<	10.000	ug/kg	10.00 ug/kg	8240
Bromomethane - solid	KG	11/22/93 16:08	<	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Chloride - solid	KG	11/22/93 16:08	<	10.000	ug/kg	10.00 ug/kg	8240
Methylene Chloride - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Trichlorofluoromethane - solid	KG	11/22/93 16:08	<	10.000	ug/kg	10.00 ug/kg	8240
1,1-Dichloroethene - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
1,1-Dichloroethane - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,2-Dichloroethene - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloroethane - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,1-Trichloroethane - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Bromodichloromethane - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloropropane - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,3-Dichloropropene - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Trichloroethene - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Dibromochloromethane - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,2-trichloroethane - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Cis-1,3-Dichloropropene - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Benzene - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
2-Chloroethylvinyl ether - solid	KG	11/22/93 16:08	<	10.000	ug/kg	10.00 ug/kg	8240
Bromoform - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
1,1,2,2,-Tetrachloroethane - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Tetrachloroethene - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Toluene - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Chlorobenzene - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Ethylbenzene - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Chloroform - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Acetone - solid	KG	11/22/93 16:08	<	0.200	mg/kg	0.20 mg/kg	8240
Carbon tetrachloride - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
Xylene - solid	KG	11/22/93 16:08	<	10.000	ug/kg	10.00 ug/kg	8240
2-Butanone - solid	KG	11/22/93 16:08	<	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Acetate - solid	KG	11/22/93 16:08	<	10.000	ug/kg	10.00 ug/kg	8240
4-methyl-2 pentanone - solid	KG	11/22/93 16:08	<	10.000	ug/kg	10.00 ug/kg	8240
Styrene - solid	KG	11/22/93 16:08	<	10.000	ug/kg	10.00 ug/kg	8240
Carbon Disulfide - solid	KG	11/22/93 16:08	<	5.000	ug/kg	5.00 ug/kg	8240
2-Hexanone - solid	KG	11/22/93 16:08	<	10.000	ug/kg	10.00 ug/kg	8240

Comments:
Analytical results are reported on a wet-weight basis.
TCLP Extracts were prepared and analyzed according to SW846 method 1311.

The volatile run was initiated at 13:09.

Sample Date: 11/09/93 In House # 11-8144-93		Source: 68-11-93		Location: FT.STEWART			
Metals Sample Preparation - water	VB	11/18/93 17:00		0.000		0.00	
TCLP Extraction, excluding Volatile cpds	JDW	11/15/93 15:00		0.000		0.00	
TCLP Extraction, Volatile cpds. only	JDW	11/15/93 15:00		0.000		0.00	
TPH (heavy fuels) sample preparation	SS	11/15/93 14:00		0.000		0.00	
Pesticide extraction - TCLP	MR	11/24/93 09:00		0.000		0.00	
Herbicide extraction - TCLP	MR	11/24/93 14:00		0.000		0.00	
Base Neutrals - TCLP extraction	SB	11/18/93 09:00		0.000		0.00	
Acid - TCLP extraction	SB	11/18/93 09:00		0.000		0.00	
Lab pH	TW	11/11/93 10:55		5.890	pH Units	0.00 pH Units	150.1
Arsenic - TCLP	JDW	11/24/93 10:55	<	0.500	ppm	0.50 ppm	206.2
Selenium - TCLP	JDW	11/23/93 19:35	<	0.100	ppm	0.10 ppm	270.2
Barium - TCLP	CW	11/29/93 12:44	<	10.000	ppm	10.00 ppm	200.7
Cadmium - TCLP	CW	11/29/93 12:44	<	0.100	ppm	0.10 ppm	200.7
Chromium - TCLP	CW	11/29/93 12:44	<	0.500	ppm	0.50 ppm	200.7

Sample Date: 11/09/93 In House # 11-8144-93 Source: 68-11-93 Location: FT.STEWART
- CONTINUED -

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Lead - TCLP	JDW	11/24/93	02:42 <	0.500	ppm	0.50 ppm	239.2
Mercury - TCLP	VTB	11/30/93	09:00 <	0.050	ppm	0.05 ppm	245.1
Silver - TCLP	CW	11/29/93	12:44 <	0.500	ppm	0.50 ppm	200.7
Benzene - TCLP	KG	11/22/93	11:48 <	0.500	mg/l	0.50 mg/l	624.
Carbon Tetrachloride - TCLP	KG	11/22/93	11:48 <	0.500	mg/l	0.50 mg/l	624.
Chlorobenzene - TCLP	KG	11/22/93	11:48 <	100.000	mg/l	100.00 mg/l	624.
Chloroform - TCLP	KG	11/22/93	11:48 <	6.000	mg/l	6.00 mg/l	624.
1,4-Dichlorobenzene - TCLP	KG	11/22/93	11:48 <	7.500	mg/l	7.50 mg/l	624.
1,2-Dichloroethane - TCLP	KG	11/22/93	11:48 <	0.500	mg/l	0.50 mg/l	624.
1,1-Dichloroethylene - TCLP	KG	11/22/93	11:48 <	0.700	mg/l	0.70 mg/l	624.
Methyl Ethyl Ketone - TCLP	KG	11/22/93	11:48 <	200.000	mg/l	200.00 mg/l	624.
Tetrachloroethylene - TCLP	KG	11/22/93	11:48 <	0.700	mg/l	0.70 mg/l	624.
Trichloroethylene - TCLP	KG	11/22/93	11:48 <	0.500	mg/l	0.50 mg/l	624.
Vinyl Chloride - TCLP	KG	11/22/93	11:48 <	0.200	mg/l	0.20 mg/l	624.
O-Cresol - TCLP	AT	11/22/93	17:55 <	200.000	mg/l	200.00 mg/l	625.
M-Cresol - TCLP	AT	11/22/93	17:55 <	200.000	mg/l	200.00 mg/l	625.
P-Cresol - TCLP	AT	11/22/93	17:55 <	200.000	mg/l	200.00 mg/l	625.
Pentachlorophenol - TCLP	AT	11/22/93	17:55 <	100.000	mg/l	100.00 mg/l	625.
2,4,5-Trichlorophenol - TCLP	AT	11/22/93	17:55 <	400.000	mg/l	400.00 mg/l	625.
2,4,6-Trichlorophenol - TCLP	AT	11/22/93	17:55 <	2.000	mg/l	2.00 mg/l	625.
2,4-Dinitrotoluene - TCLP	AT	11/22/93	17:55 <	0.130	mg/l	0.13 mg/l	625.
Hexachlorobenzene - TCLP	AT	11/22/93	17:55 <	0.130	mg/l	0.13 mg/l	625.
Hexachlorobutadiene - TCLP	AT	11/22/93	17:55 <	0.500	mg/l	0.50 mg/l	625.
Hexachloroethane - TCLP	AT	11/22/93	17:55 <	3.000	mg/l	3.00 mg/l	625.
Nitrobenzene - TCLP	AT	11/22/93	17:55 <	0.130	mg/l	0.13 mg/l	625.
Pyridine - TCLP	AT	11/22/93	17:55 <	5.000	mg/l	5.00 mg/l	625.
TPH light fuel, 5030/8015 - solid	KG	11/22/93	13:32 <	10.000	mg/kg	10.00 mg/kg	8015
TPH heavy fuel, 3550/8015 - solid	CCS	11/17/93	01:58	23.400	mg/kg	10.00 mg/kg	8015
Toxaphene TCLP - liquid	RMK	12/01/93	02:44 <	0.500	mg/l	0.50 mg/l	608
2,4-D TCLP - liquid	RMK	12/01/93	02:44 <	10.000	mg/l	10.00 mg/l	509.
Silvex TCLP - liquid	RMK	12/01/93	02:44 <	1.000	mg/l	1.00 mg/l	509.
Chlordane TCLP - liquid	RMK	12/01/93	02:44 <	0.030	mg/l	0.03 mg/l	608.
Endrin TCLP - liquid	RMK	12/01/93	02:44 <	0.020	mg/l	0.02 mg/l	608.
Heptachlor TCLP - liquid	RMK	12/01/93	02:44 <	8.000	ug/l	8.00 ug/l	608.
Heptachlor Epoxide TCLP - liquid	RMK	12/01/93	02:44 <	8.000	ug/l	8.00 ug/l	608.
Lindane TCLP - liquid	RMK	12/01/93	02:44 <	0.400	mg/l	0.40 mg/l	608.
Methoxychlor TCLP - liquid	RMK	12/01/93	02:44 <	10.000	mg/l	10.00 mg/l	608.
% Solids	MB	11/16/93	09:00	86.100	%	0.01 %	160.3
Chloromethane - solid	KG	11/22/93	16:11 <	10.000	ug/kg	10.00 ug/kg	8240
Bromomethane - solid	KG	11/22/93	16:11 <	10.000	ug/kg	10.00 ug/kg	8240
Vinyl Chloride - solid	KG	11/22/93	16:11 <	10.000	ug/kg	10.00 ug/kg	8240
Methylene Chloride - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Trichlorofluoromethane - solid	KG	11/22/93	16:11 <	10.000	ug/kg	10.00 ug/kg	8240
1,1-Dichloroethene - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
1,1-Dichloroethane - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,2-Dichloroethene - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloroethane - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
1,1,1-Trichloroethane - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Bromodichloromethane - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
1,2-Dichloropropane - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Trans 1,3-Dichloropropene - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Trichloroethene - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Dibromochloromethane - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
1,1,2-trichloroethane - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Cis-1,3-Dichloropropene - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Benzene - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
2-Chloroethylvinyl ether - solid	KG	11/22/93	16:11 <	10.000	ug/kg	10.00 ug/kg	8240
Bromoform - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
1,1,2,2,-Tetrachloroethane - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Tetrachloroethene - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Toluene - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Chlorobenzene - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Ethylbenzene - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Chloroform - solid	KG	11/22/93	16:11 <	5.000	ug/kg	5.00 ug/kg	8240
Acetone - solid	KG	11/22/93	16:11 <	0.200	mg/kg	0.20 mg/kg	8240

Parameter	Analyst	Analysis Date -- Time		Results	Units	Lowest Detectable Level	Method Number
Sample Date: 11/09/93 In House # 11-8144-93		Source: 6B-11-93		Location: FT.STEWART			
		- CONTINUED -					
Carbon tetrachloride - solid	KG	11/22/93	16:11	< 5.000	ug/kg	5.00 ug/kg	8240
Xylene - solid	KG	11/22/93	16:11	< 10.000	ug/kg	10.00 ug/kg	8240
2-Butanone - solid	KG	11/22/93	16:11	< 10.000	ug/kg	10.00 ug/kg	8240
Vinyl Acetate - solid	KG	11/22/93	16:11	< 10.000	ug/kg	10.00 ug/kg	8240
4-methyl-2 pentanone - solid	KG	11/22/93	16:11	< 10.000	ug/kg	10.00 ug/kg	8240
Styrene - solid	KG	11/22/93	16:11	< 10.000	ug/kg	10.00 ug/kg	8240
Carbon Disulfide - solid	KG	11/22/93	16:11	< 5.000	ug/kg	5.00 ug/kg	8240
2-Hexanone - solid	KG	11/22/93	16:11	< 10.000	ug/kg	10.00 ug/kg	8240

Comments:
Analytical results are reported on a wet-weight basis.
TCLP Extracts were prepared and analyzed according to SW846 method 1311.

The volatile run was initiated at 13:36.

Laboratory ID # 40111

Very truly yours,

James H. Carr, Jr.
Chemist

FT. STEWART Number Key
JOB NUMBER FST-026

Carr Lab No.	FT STEWART ID
11-8141-93	5A-11-93
11-8142-93	5B-11-93
11-8143-93	6A-11-93
11-8144-93	6B-11-93

LEGEND

QC SAmple Number: The identifying number on a sample or known which makes unique identification of each sample possible.

Val. 1, Val. 2: Concentrations of duplicate samples, presented for precision information. * indicates a spiked duplicate sample if this information is not presented elsewhere.

RPD: Relative Percent Difference:

$$RPD = \frac{abs(D_1 - D_2)}{(D_1 + D_2)/2} * 100$$

Spike Conc.: The concentraiton of spike material added to the sample to produce the spiked sample.

True Value: The target concentraiton for the spiked sample:

TV = Sample Conc. - Spike Conc.

Observed Value: The concentration observed in the spiked sample upon analysis.

Percent Recovery: A measure of the concentration of the sppiked sample relative to the spiked concentration:

$$\% \text{ Recovery} = \frac{\text{Conc. spiked sample - Conc. unspiked sample}}{\text{spike concentration}}$$

QUALITY CONTROL FOR LEAD ANALYSIS

SAMPLES NUMBERED: 11-8141-93 through 11-8144-93 analyzed 11/24/93;

Date	QC Sample Number	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
11/24/93	WP28-2					30.0	34.7	116
11/24/93	DIG.STD.					50.0	52.2	104
11/24/93	8145*	32.0	31.5	1.6	18.5	32.1	32.0	99
11/24/93	8192*	6.5	6.2	4.7	5.0	6.8	6.5	95

* Indicates a spiked duplicate sample.

U-8604

QUALITY CONTROL FOR ARSENIC ANALYSIS

SAMPLES NUMBERED: 11-8141-93 through 11-8144-93 analyzed 11/24/93;

Date	QC Sample Number	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
11/24/93	WP28-2					86.0	96.6	112
11/24/93	DIG.STD.					50.0	47.9	96
11/24/93	8192*	5.4	6.2	13.8	5.0	5.0	5.4	108
11/24/93	8143*	65.0	58.0	11.4	50.0	57.0	65.0	116

QUALITY CONTROL FOR SELENIUM ANALYSIS

SAMPLES NUMBERED: 11-8141-93 through 11-8144-93 analyzed 11/24/93;

Date	QC Sample Number	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
11/24/93	WP28-2					11.0	12.5	114
11/24/93	DIG.STD.					50.0	53.7	107
11/24/93	8186*	13.3	11.2	17.1	15.0	15.0	13.3	89
11/24/93	8100*	5.5	5.3	3.7	5.0	5.0	5.3	106

C1-8651

QUALITY CONTROL FOR ICP ANALYSIS

SAMPLES NUMBERED: 11-8141-93 through 11-8144-93 analyzed 11/29/93.

Date	Elem	QC Sample Number	Val. 1 (mg/l)	Val. 2 (mg/l)	% RPD	Spike Conc.	True Value	Obs. Val	Percent Recovery
11/29/93	Ag	ICP-07					0.10	0.099	99
11/29/93	Ba	ICP-07					0.10	0.099	99
11/29/93	Cr	ICP-19					0.10	0.090	90
11/29/93	Cd	ICP-19					0.10	0.085	85
11/29/93	Ag	8142	<.05	<.05	0	0.20	0.20	0.222	111
11/29/93	Cr	8142	<.05	<.05	0	0.20	0.20	0.153	88
11/29/93	Ba	8142	<.05	<.05	0	0.20	0.20	0.160	80
11/29/93	Cd	8142	<.01	<.01	0	0.20	0.20	0.151	76
11/29/93	Ag	CHK.STD	0.127	0.088	36.4		0.10	0.088	88
11/29/93	Cr	CHK.STD	0.072	0.072	0		0.10	0.072	72
11/29/93	Ba	CHK.STD	0.093	0.073	24.1		0.10	0.093	93
11/29/93	Cd	CHK.STD	0.071	0.064	10.4		0.10	0.071	71

QUALITY CONTROL FOR MERCURY ANALYSIS

SAMPLES NUMBERED: 11-8141-93 through 11-8144-93 analyzed 11/30/93;

Date	QC Sample Number	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
11/30/93	EPA					2.00	1.92	96
11/30/93	8192	<.2	<.2	0	1.0	1.00	0.80	80
11/30/93	8144	<.2	<.2	0	1.0	1.00	1.02	102
11/30/93	CHK.STD	1.02	1.19	15.4	1.0	1.00	1.02	102

QUALITY CONTROL FOR PESTICIDES

SAMPLES NUMBERED: 11-8143-93 through 11-8144-93 analyzed 12/01/93;
SAMPLES NUMBERED: 11-8141-93 through 11-8142-93 reanalyzed 12/10-11/93 for confirmation;

CL-8140

SPIKE RECOVERY DATA FOR 12/01/93

SPIKE QC SAMPLE NUMBER: 11814093 SPIKED DUPLICATE

Analyte	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
Gamma-BHC	0.078	0.054	36.4	0.08	0.08	0.078	93
Heptachlor	0.102	0.056	58.2	0.08	0.08	0.102	128
Aldrin	0.078	0.051	41.8	0.08	0.08	0.078	98
Dieldrin	0.066	0.039	51.4	0.08	0.08	0.066	83
Endrin	0.072	0.029	86.0	0.08	0.08	0.072	90
Endosulf. I	0.072	0.046	44.1	0.08	0.08	0.072	90

BLANK DATA FOR PESTICIDES

All analytes less than 0.05 ug/L on all dates.

SURROGATE RECOVERIES FOR PESTICIDES

Sample Date	Sample Number	Theoretical Conc. (ug/l)	Observed Conc.(ug/l)	Percent Recovery
12/01/93	BLANK	1.0	0.27	27
12/01/93	11-8140MS	1.0	0.45	45
12/01/93	11-8140MSD	1.0	0.27	27
12/01/93	11-8143-93	1.0	0.36	36
12/01/93	11-8144-93	1.0	0.42	42
12/01/93	11-8141-93	1.0	0.87	87
12/01/93	11-8142-93	1.0	0.49	49

U-867

QUALITY CONTROL FOR HERBICIDES

SAMPLES NUMBERED: 11-8141-93 through 11-8144-93 analyzed 12/06/93;

DATE: 12/06/93
SPIKE QC SAMPLE NUMBER: 11839793 SPIKED DUPLICATE

Analyte	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
2,4-D	3.74	3.75	0.3	3.00	3.00	3.74	125
Silvex	.414	0.368	11.8	0.375	0.375	0.368	98

SURROGATE RECOVERIES FOR HERBICIDES

Sample Date	Sample Number	Theoretical Conc. (ug/l)	Percent Recovery
12/06/93	BLANK	4.0	97
12/06/93	11-8141-93	4.0	114
12/06/93	11-8142-93	4.0	134
12/06/93	11-8143-93	4.0	30
12/06/93	11-8144-93	4.0	110
12/06/93	11-8397-93	4.0	108
12/06/93	11-8397SPK	4.0	111
12/06/93	11-8397SPKDUP	4.0	101

11-8688

QUALITY CONTROL FOR VOLATILES

SAMPLES NUMBERED: 11-8141-93 through 11-8144-93 analyzed 11/22/93;

DATE: 11/22/93
SPIKE QC SAMPLE NUMBER: 11809293 SPIKED DUPLICATE

Analyte	Val. 1 (ug/l)	Val. 2 (ug/l)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
1,1 Dichloroethene	34.4	41.0	17.5	50	50	41.0	82
Trichloroethene	38.8	46.8	18.7	50	50	46.8	94
Benzene	38.8	47.9	21.0	50	50	47.9	96
Toluene	43.2	52.7	19.8	50	50	52.7	105
Chlorobenzene	37.4	45.6	19.8	50	50	45.6	91

BLANK DATA FOR VOLATILES

All analytes on all dates <5 ug/L.

SURROGATE RECOVERIES FOR VOLATILES, PERCENT RECOVERY

Sample Date	Sample Number	1,2 dichloro-ethane d-4	Toluene d-8	Bromofloro benzene
11/22/93	BLANK	88	81	89
11/22/93	11-8141-93	84	83	166*
11/22/93	11-8142-93	84	80	142*
11/22/93	11-8143-93	73	72	129
11/22/93	11-8144-93	102	107	173*
11/22/93	11-8092SPK	82	86	78
11/22/93	11-8092SPKDUP	94	100	89

ACIDS AND BASE-NEUTRALS QUALITY CONTROL DATA

SAMPLES NUMBERED: 11-8141-93 through 11-8144-9304 analyzed 11/22/93;

DATE: 11/22/93
QC SAMPLE: BLKSPK1118 and 11814493DUP

Analyte	Dup. 1 ug/l	Dup. 2 ug/l	% RPD	Spike (ug/l)	True Value	Observed Value	Percent Recovery
1,4-Dichlorobenzene	15.0			100	100	15.0	15
2,4 Dinitrotoluene	47.3			100	100	47.3	47
Pentachlorophenol	125			200	200	125	63

U-870

QC SAMPLE: 11814493DUP

Analyte	Dup. 1 ug/l	Dup. 2 ug/l	% RPD	Spike (ug/l)	True Value	Observed Value	Percent Recovery
1,4-Dichlorobenzene	<10.0	<10.0	0				
2,4 Dinitrotoluene	<10.0	<10.0	0				
Pentachlorophenol	<10.0	<10.0	0				

SURROGATE RECOVERIES FOR BASE-NEUTRALS
PERCENT RECOVERY

Sample Date	Sample Number	Nitrobenzene-d-5	2-Fluoro biphenyl	Terphenyl d-14	Phenol d-5	2-Fluoro phenol	2,4,6 Tribromo phenol
11/22/93	BLANK	53	63	66	59	69	51
11/22/93	11-8141-93	67	116	154	12	18	33
11/22/93	11-8142-93	66	75	74	38	97	78
11/22/93	11-8143-93	80	83	97	39	66	75
11/22/93	11-8144-93	40	43	71	39	66	75
11/22/93	11-814093	52	64	84	28	48	63
11/22/93	11-8144DUP	37	41	143	33	57	82
11/22/93	BLKSPK111893	31	49	79	26	37	70

U-871

BLANK DATA FOR ACIDS AND BASE NEUTRALS

All Compounds less than the minimum detectable level.

QUALITY CONTROL FOR HEAVY TPH

SAMPLES NUMBERED: 11-8141-93 through 11-8144-93 analyzed 11/17/93.

Date	Sample Number	Val. 1 (ug/Kg)	Val. 2 (ug/Kg)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
11/17/93	11814493	1040	1030	1.0	850	870	1030	119

SURROGATE RECOVERIES FOR HEAVY TPH

Sample Date	Sample Number	Percent Recovery
11/17/93	BLANK	91
11/17/93	112693BS	95
11/17/93	11-8142-93	90
11/17/93	11-8144-93	95
11/17/93	11-8144SPK	101
11/17/93	11-8144SPKDUP	92

Samples 8141 and 8143 were diluted 1:100 for analysis. Thus, the surrogate recoveries were diluted out.

QUALITY CONTROL FOR LIGHT TPH

SAMPLES NUMBERED: 11-8141-93 through 11-8144-93 analyzed 11/22/93 SPIKED DUPLICATE

Date	Sample Number	Val. 1 (ug/Kg)	Val. 2 (ug/Kg)	% RPD	Spike Conc.	True Value	Observed Value	Percent Recovery
11/22/93	11832193	11.6	10.3	11.9	14.0	14.0	11.6	83

SURROGATE RECOVERIES FOR LIGHT TPH

Sample Date	Sample Number	1,2 dichloro-ethane d-4	Toluene d-8	Bromofloro benzene
11/22/93	BLANK	93	101	74
11/22/93	11-8141-93	138	113	68
11/22/93	11-8142-93	90	132	114
11/22/93	11-8143-93	74	100	72
11/22/93	11-8144-93	88	109	87
11/22/93	11-8321-93	91	91	77
11/22/93	11-8321SPK	93	94	84
11/22/93	11-8321SPKDUP	64	82	69

CARR LABORATORIES

CHAIN OF CUSTODY RECORD

Client CESAS
Project No. FST-026
Contact Toni N. Nicholson
Phone No. 912-652-5312
Address P O Box 889, Savannah, Ga 31402
Fax No. 912-652-5311
Collected By Judson Smith
Client P.O.# ____

MT (Matrix Type)	AP (Analytical Program)
L=Liquid	W=Wastewater
(S)=Soil	G=Groundwater
O=Oil	D=Drinking Water
X=Other	(S)=Solid/Haz. Waste
	N=Nonregulated

Carr's Lab No.	Sample Source	Sample Location	Date/Time	Well	Grab	Composite	MT	AP	Number of Containers	Preserved Y or N	Analyses Requested
FST-026-5A-11-93	FT STEWART	FST-026	11/9/93 / 10:40		X		S		5	N	11-8141-93 pH, VOC 8240, Full TCLP, TPH LIGHT, TPH HEAVY
FST-026-5B-11-93	"	"	11/9/93 / 10:45		X		S		5	N	" " " " " 8142
FST-026-6A-11-93	"	"	11/9/93 / 11:00		X		S		5	N	" " " " " 8143
FST-026-6B-11-93	"	"	11/9/93 / 11:00		X		S		5	N	" " " " " 8144
					X		S		5	N	

temperature vial = 1.8°c
ice visible

C1-875

Relinquished By	Received By	Date	Time
1.	Henry Barton	11/10/93	1602
2. Henry Barton	D. Hutto	11/10/93	1950
3.			
Received In Lab By	D. Hutto	11/10/93	19:50

JAMES H. CARR & ASSOCIATES, INC.
Office and Laboratories
P.O. Box 90209
Columbia, South Carolina 29290
(803) 776-7789 Fax: 783-2192

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Phase I investigation (analytical results did not indicate a release had occurred, analytical results indicated concentrations were below the GAEPD guidelines and/or the site was never used), no further action is recommended at the following sites:

- SWMU4G(FST-004G) Burn Pit
- SWMU24A(FST-024A) New Radiator Shop
- SWMU27(FST-027) DOL Maintenance Motor Pool
- SWMU28(FST-028) 724th Battery Shop
- SWMU30(FST-030) Recirculating Wash Impoundment "Bird Bath"
- SWMU33(FST-033) DEH Pesticide Warehouse

Continued monitoring is recommended at SWMU20(FST-020) Wright Army Airfield Sewage Disposal Beds (Land Spray Application and Lagoon) in accordance with the NPDES permit.

Based on the Phase I results of the soil and ground-water analytical data and the exposure pathways analyses, a Phase II investigation is recommended at the following sites:

- SWMU1(FST-001) South Central Landfill
- SWMU2(FST-002) Camp Oliver Landfill
- SWMU3(FST-003) TAC-X Landfill
- SWMU4(FST-004) Burn Pits A through F
- SWMU9(FST-009) Inactive EOD Area
- SWMU10(FST-010) Inactive EOD Area
- SWMU11(FST-011) Inactive EOD Area
- SWMU12(FST-012) Active EOD Area
- SWMU14(FST-014) Old Fire Training Area
- SWMU17(FST-017) DRMO Hazardous Waste Storage Area
- SWMU18(FST-018) Industrial Wastewater Treatment Plant
- SWMU19(FST-019) Old Sludge Drying Beds

- SWMU24A(FST-024A) Old Radiator Shop
- SWMU24B(FST-024B) Paint Booth
- SWMU25(FST-025) Waste Oil Tanks (All 15 sampled tanks and the tanks that failed the tank tightness test)
- SWMU26(FST-026) 724th Tanker Purging Station
- SWMU27(FST-027) Motor Pools (All motor pools with oil/water separators)
- SWMU29(FST-029) Evans Army Heliport POL Storage Facility
- SWMU31(FST-031) DEH Asphalt Tanks
- SWMU32(FST-032) Supply Diesel Tank
- SWMU34(FST-034) DEH Equipment Wash Rack

RUST E&I recommends that a Phase II RFI Work Plan be prepared for the previously noted SWMUs at Fort Stewart. The Phase II RFI Work Plan will document procedures to be utilized for RCRA investigations at each of the SWMUs. Prior to initiation of Phase II field activities, the Phase II RFI Work Plan must meet GAEPD approval. The Phase II field investigations will include monitoring well installation, soil sampling and soil permeability testing, ground-water sampling, horizontal and vertical extent of contamination, ground-water flow rate calculations, map preparation, data quality objectives for risk assessment needs and any requirements that the GAEPD recommends.

Upon completion of Phase II field activities, a Phase II RFI Report will be submitted to the GAEPD that summarizes the results of all work completed. The results of the Phase II investigations will be evaluated along with the results of the Phase I investigations to confirm if Corrective Measure Studies (CMS) are warranted.