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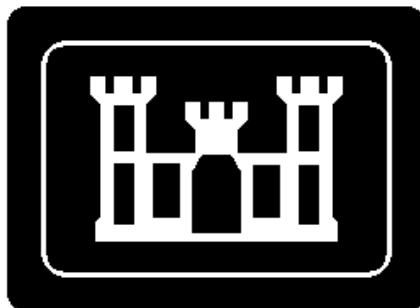
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# **RCRA FACILITY INVESTIGATION REPORT**

*FOR*

**FH-018 (PESTICIDE BURIAL SITE 18)  
FORT HOOD, TEXAS**

*PREPARED FOR*



**U. S. ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT**

CONTRACT NO. DACA63-96-D-0021

MAY 4, 1998

**RCRA Facility Investigation  
For  
Site FH-018 (Pesticide Burial Site 18)**

**Prepared for  
U.S. Army Corps of Engineers  
Fort Worth District  
Fort Worth, Texas**

**Under Contract Number  
DACA63-96-D-0021**

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Columbus, OH 43017**

**May 4, 1998**

## TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
1.1 BACKGROUND .....	1
1.2 SCOPE AND OBJECTIVES.....	1
2.0 ENVIRONMENTAL SETTING .....	6
2.1 PHYSIOGRAPHIC SETTING.....	6
2.2 GEOLOGIC CONDITIONS.....	6
2.2.1 Bedrock.....	6
2.2.2 Unconsolidated Materials .....	6
2.3 CHARACTERIZATION OF SOILS .....	8
2.4 CHARACTERIZATION OF CLIMATE.....	8
3.0 UNIT CHARACTERIZATION.....	9
4.0 CHARACTERIZATION OF UNIT CONTAMINATION.....	10
4.1 TECHNICAL APPROACH.....	10
4.1.1 Geophysical Investigation .....	10
4.1.2 Soil Sampling Investigation .....	10
4.2 UNIT INVESTIGATION AND ANALYTICAL RESULTS .....	14
4.2.1 Soil Analytical Results .....	14
4.2.2 Disposition of Investigation Derived Waste (IDW).....	14
5.0 SOIL SCREENING ANALYSIS.....	15
6.0 INVESTIGATION ANALYSIS.....	16
6.1 DATA QUALITY ASSURANCE/QUALITY CONTROL.....	16
6.2 INVESTIGATION RESULTS .....	16
7.0 CONCLUSIONS AND RECOMMENDATIONS.....	17
8.0 REFERENCES .....	18

## FIGURES

Figure 1.1	Fort Hood Vicinity Map .....	2
Figure 1.2	Fort Hood Installation Map.....	3
Figure 1.3	Photographs of FH-018 .....	4
Figure 2.1	Topography of Main Cantonment and Vicinity.....	7
Figure 4.1	Geophysics Anomaly Map .....	11
Figure 4.2	Geophysical Survey Map.....	12
Figure 4.3	Trench and Soil Sampling Locations for FH-018 .....	13

## **APPENDICES**

- A: FH-018 Analytical Results
- B: Trenching Logbook Entries

## ACRONYMS

AA	Atomic absorption
ATV	all-terrain vehicle
BEGM	Bureau of Economic Geology
BG	background
BGS	below ground surface
CQAR	Chemical Quality Assessment Report
DOT	Department of Transportation
DPW	Directorate of Public Works
EM	Electromagnetic
FH	Fort Hood
ft	feet or foot
GC/MS	Gas Chromatography/Mass Spectrometry
ICP	Inductively coupled plasma
IDW	Investigation Derived Waste
LCS	Laboratory Control Samples
MSC	medium specific concentration
msl	mean sea level
MS/MSDs	Matrix Spike/Matrix Spike Duplicate
ppb	parts per billion
ppm	parts per million
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RRS	Risk Reduction Standards
SAIC	Science Applications International Corporation
SWMU	Solid Waste Management Unit
TCLP	Toxicity Characteristic Leaching Procedure
TNRCC	Texas Natural Resources Conservation Commission
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
UTL	upper tolerance limit

## **1.0 INTRODUCTION**

Fort Hood is an active U.S. Army installation occupying 217,551 acres (339 square miles) in southern Coryell and Bell Counties in central Texas. It is situated 60 miles north of Austin, and about 50 miles south of Waco. The installation is located north of and adjacent to the city of Killeen, east of and adjacent to the city of Copperas Cove, and four miles south of the city of Gatesville. A vicinity map is shown in Figure 1.1.

Fort Hood began operations in 1942. Robert Gray Air Field, originally operated by the Air Force as Robert Gray Air Force Base, was established in 1947 (U. S. Army 1996a). Fort Hood's mission is training, testing, and deployment of military personnel and equipment. The post is commanded by the III Corps Commander. Currently, the post supports two full armored divisions (the 1st Cavalry and 4th Infantry Divisions). Forty-three thousand military personnel are stationed there; and an additional 30,000 family members, civilians, volunteers, and private-sector employees also live or work at Fort Hood (U.S. Army 1996b). Among the military assets of Fort Hood are approximately 2,500 tracked vehicles, over 11,000 wheeled vehicles, six fixed wing aircraft, and 230 rotary-wing aircraft. The post has 67 active firing and demolition ranges.

The Fort Hood military reservation is regulated under the Resource Conservation and Recovery Act (RCRA) as a hazardous waste management facility. Fort Hood has a RCRA permit to operate three hazardous waste storage units. The RCRA permit requires that Fort Hood perform a RCRA Facility Investigation (RFI) for 40 solid waste management units (SWMUs) listed in the permit. These SWMUs are distributed across the military reservation, in the main cantonment, West Fort Hood, and North Fort Hood. They include former solid waste landfills and burial sites. An installation map is shown in Figure 1.2.

This report describes the collection and analysis of data from SWMU FH-018, Pesticide Burial Site, one of 35 SWMUs investigated during the RFI conducted November 1996 through March 1997. FH-018 is located west of Clear Creek Road, on the northwest corner of the intersection of Turkey Run Road and an unnamed road north of Turkey Run Road.

### **1.1 BACKGROUND**

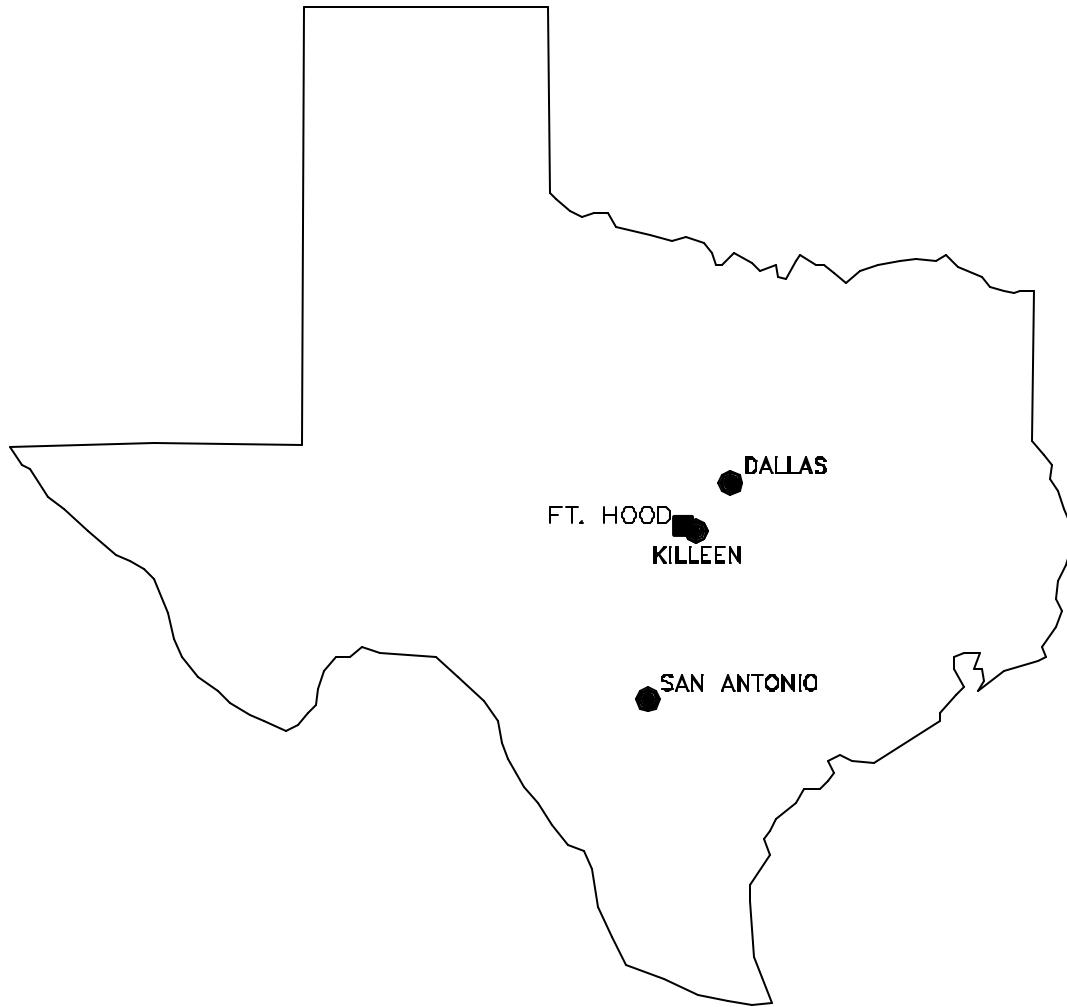
FH-018 is a one-time burial site reportedly used to dispose of six, 5-gallon cans of Vapona (Dichlorvos) pesticide granules in 1975. The pesticides are believed to have been buried in 5-gallon metal cans. The exact burial location and depth of burial is not known. Photographs of the unit taken in March 1997, are provided in Figure 1.3.

### **1.2 SCOPE AND OBJECTIVES**

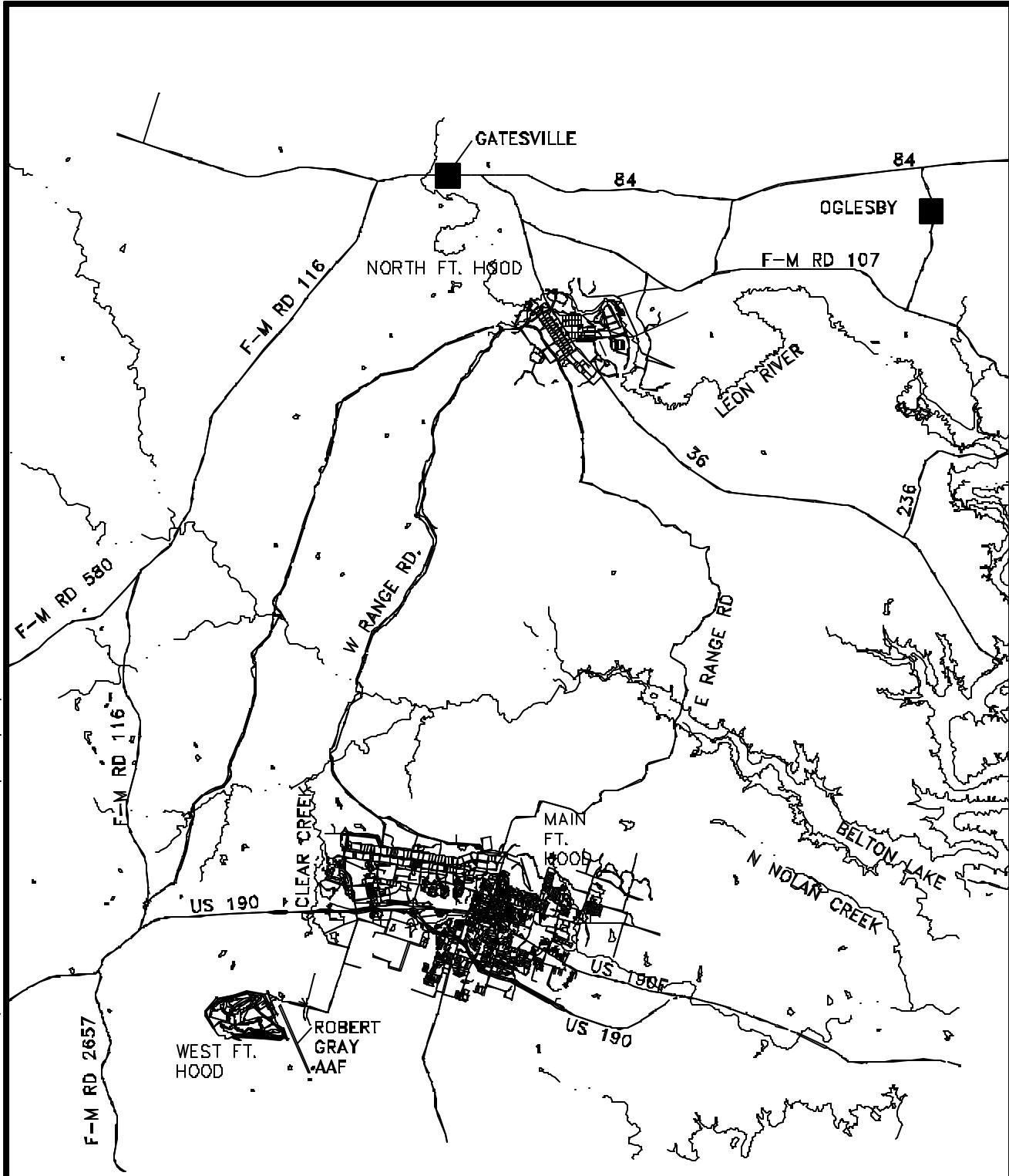
The objective of the RFI at FH-018 was to determine if Vapona is present at the site and, if identified, to characterize the potential source and extent of contamination. This report assesses the nature of soil contamination at the site and evaluates what, if any, corrective measures are needed.

The specific objectives of the investigation of FH-018 were as follows:

- determine the presence or absence of Vapona in the soil at the burial site;
- determine the lateral boundaries of the burial site and the vertical and lateral extent of soil contamination at the burial site, where practicable;



U.S. ARMY FORT HOOD, TEXAS					
<b>RCRA FACILITY INVESTIGATION</b>					
<b>FORT HOOD VICINITY MAP</b>					
<b>SAC.</b>		<i>Science Applications International Corporation</i>		Columbus, Ohio	
DRAWN SC	CHECKED	DATE	SCALE NO SCALE	PROJECT NO.	FIGURE NO. 1.1



LEGEND

- MAJOR ROADS
- ~~~~ RIVERS/STREAMS
- WATER BODIES

U.S. ARMY  
FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION



FT. HOOD INSTALLATION MAP



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International Corporation Columbus, Ohio

DRAWN	CHECKED	DATE	SCALE 1"=7000M	PROJECT NO.	FIGURE NO. 1.2



**Figure 1.3 Photographs of FH-018**

- C determine if groundwater is present below the burial site and, if present, determine if the groundwater is contaminated; and
- C characterize the migration potential of any contaminants identified in the soils beneath the burial site.

The approach to the RFI included field sampling and laboratory analysis of surface and subsurface soils. The sampling and analysis program was conducted in accordance with the Final RCRA Facility Investigation Work Plan for Fort Hood Site FH-018 (USACE 1995).

## **2.0 ENVIRONMENTAL SETTING**

The material presented in this section describes the physical characteristics of FH-018 and its surroundings. The geology, physiography, and climate are presented using regional and site-specific data where available.

### **2.1 PHYSIOGRAPHIC SETTING**

Fort Hood is located within the eastern edge of the Lampasas Cut Plains region of the North-Central Plains physiographic province. The topography of Fort Hood consists of small stream valleys separated by ridge-forming mesas. Relief is as great as 340 ft. The Black and Blackwell Mountains are prominent features north of the main cantonment, as are Seven Mile Mountain at West Fort Hood, and the Dalton Mountains southwest of North Fort Hood. A topographic map of Fort Hood in the area of FH-018 is provided in Figure 2.1.

Local relief on the main cantonment and at West Fort Hood is generally less than 100 ft, with flat to gently rolling topography. Elevations on the main cantonment range from 860 to 950 ft above mean sea level (msl). SWMU FH-018 elevation is approximately 910 ft above msl.

The rivers, streams, and creeks that constitute the main surface water pathways at Fort Hood are shown on Figure 1.2. The main cantonment lies along a watershed divide between Belton Lake and the Leon River, downstream from the lake. The western and north-central parts of the main cantonment are drained by Clear Creek, which discharges to House Creek. House Creek is a tributary to the eastward-flowing Cowhouse Creek, which discharges to Belton Lake, a man-made reservoir. South Nolan Creek and North Nolan Creek both originate on Fort Hood and flow eastward to the Leon River, below Belton Lake.

### **2.2 GEOLOGIC CONDITIONS**

A summary of the geology of the Fort Hood area relevant to this RFI is adapted from the Final RCRA Facility Investigation Work Plan, 35 Solid Waste Management Units, Fort Hood, Texas (USACE 1995). Relevant information on the occurrences of soils and bedrock has been incorporated to further characterize the geology of FH-018 and its surroundings.

#### **2.2.1 Bedrock**

Lower Cretaceous marine sedimentary rocks make up the stratigraphy underlying Fort Hood. The Fredericksburg Group consists of several stratigraphic units. The Walnut Formation is the lowermost unit of the Fredericksburg Group and is the dominant stratigraphic unit in the main cantonment. It consists of shales with interbedded limestone, chalky nodular limestone, and shell aggregates. The fossiliferous Walnut Formation is exposed in many locations at Fort Hood. It varies in thickness from 100 to 150 ft (BEGM 1979). The Comanche Peak Formation and an undifferentiated unit overlie the Walnut Formation, but are present at the surface only north of the main cantonment in the Black and Blackwell Mountains, and on West Fort Hood on Seven Mile Mountain.

Bedrock dips gently to the southeast throughout the area. Inactive faults are present in the subsurface to the east of Fort Hood along the Balcones Fault Zone, which runs through Bell, McLennan, and Hill Counties.

#### **2.2.2 Unconsolidated Materials**

Alluvial deposits of Quaternary age are present along stream valleys on the main cantonment, specifically along



400 0 400 800  
METERS

LEGEND

- TOPOGRAPHIC CONTOUR (FT.)
- DRAINAGE
- SURFACE DRAINAGE FLOW
- AREA OF FH-018

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FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

TOPOGRAPHY OF MAIN CANTONMENT



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DRAWN SC	CHECKED	DATE	SCALE AS SHOWN	PROJECT NO.	FIGURE NO. 2.1
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South Nolan Creek on the southern edge of the cantonment (USACE 1995). It is suspected that much alluvium and other natural surface deposits have been reworked throughout the active life of Fort Hood during construction projects.

### **2.3 CHARACTERIZATION OF SOILS**

In many areas of the main cantonment, silty or sandy clay soils overlie bedrock. In upland areas, these soils contain abundant rock fragments. In general, these soils have low permeabilities (USDA 1985a,b). They range in thickness from 15 to 20 ft. Because soils have been extensively reworked for construction and landfilling in the SWMUs that were investigated, it is difficult to apply the USDA classification to the soils encountered on the main cantonment.

### **2.4 CHARACTERIZATION OF CLIMATE**

The climate of the Fort Hood-Killeen area can be characterized as semi-arid continental. Winters (December-March) are mild, with the average daily maximum temperature in January (the coldest month) reaching 60° F.

Below-freezing temperatures occur on an average of 23 days per year. The normal daily winter temperature range is 42 to 62° F. At times, strong northerly winds accompanied by sharp drops in temperature occur during the winter months. Summers (June-September) are hot and dry. The average daily maximum temperature in August, the hottest month, reaches 95.9° F. The normal daily temperature range for summer is 75 to 95° F. The average daily temperature in Killeen is 68.1° F.

Average annual rainfall in the Killeen area is 30.4 inches, and is most concentrated from September to May (U.S. Army 1996). Snowfall is rare. The average annual humidity in the region is 55 percent. Total rainfall for 1996 at Fort Hood was 26.7 inches. The ten months prior to the start of the field program for this RFI were anomalously dry. During the five-month period in which the field program of the RFI was conducted, precipitation was higher than the historical monthly averages. Severe weather in the form of heavy rain, hail storms, and ice storms is common in the winter months.

### **3.0 UNIT CHARACTERIZATION**

Site FH-018 is a one-time suspected burial site of Vapona pesticide granules. There have been no previous investigations performed at FH-018, therefore the exact location, depth, and boundaries of the site are unknown.

Vapona, also known as Dichlorvos, has a chemical name of 2,2-dichloro-vinyl dimethyl phosphate. It is an organophosphorus insecticide that was generally used as a pre-harvest treatment for fruit, vegetables, rice, and field crops. The granules may have been an old formulation in the military supply system for use in food storage warehouses for stored product pest control. Vapona is rapidly hydrolyzed in air and degrades fairly rapidly in soil and water. A saturated aqueous solution of Vapona has a half-life of 23 days.

## **4.0 CHARACTERIZATION OF UNIT CONTAMINATION**

The RFI field program was designed to do the following at SWMU FH-018:

- C determine/confirm the presence or absence of Vapona in the soils at the burial site;
- C determine the lateral boundaries of the burial site, and the vertical and lateral extent of soil contamination at the burial site, where practicable;
- C determine if groundwater is present below the burial site and, if present, determine if the groundwater is contaminated; and
- C characterize the migration potential of the contaminants identified in the soils beneath the burial site.

### **4.1 TECHNICAL APPROACH**

#### **4.1.1 Geophysical Investigation**

An EM-31 unit was used to determine electromagnetic (EM) conductivity at the suspected site. The survey was designed with 60 survey lines on five-foot spacings, and the points on each line spaced five feet apart. The objective of the survey design was to locate conductivity anomalies indicative of the buried metal Vapona canisters. The 5x5-ft survey grid and collection of in-phase and quadrature data in both the horizontal and vertical dipole orientations permit high-resolution mapping of the shallow subsurface anomalies. The limits of the geophysical investigation were approximately 20 ft beyond the suspected boundaries of the site. The location of the burial site boundaries was based on interviews with Fort Hood personnel.

The geophysical investigation was conducted in January 1997. Conditions during the investigation were wet, and standing water was present in many places at the unit. An overhead utility line bisects the site in the north-south direction, and contributed some minor interferences resulting from grounding at the grid locations closest to it.

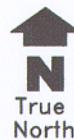
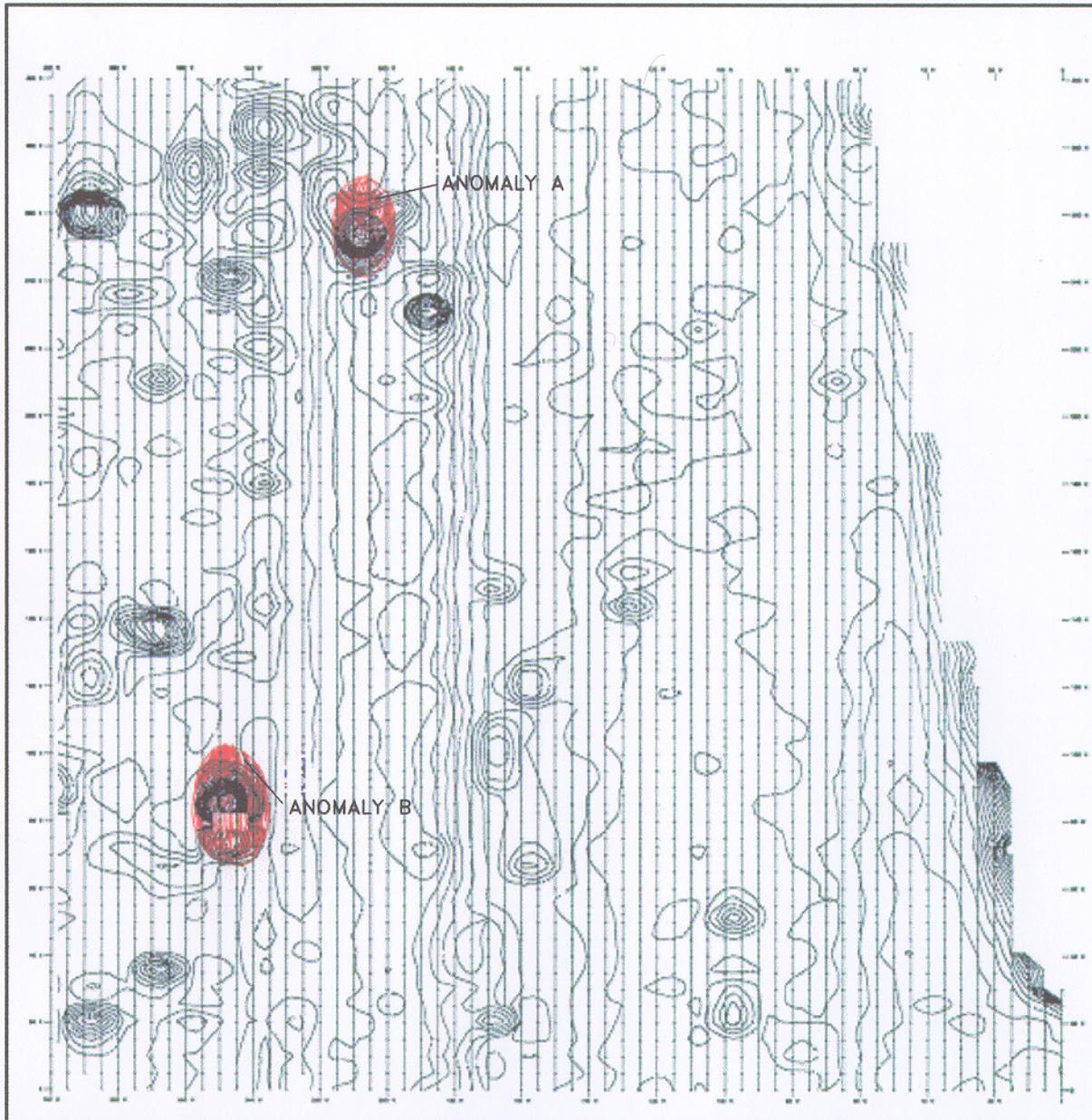
Both of these factors may have influenced conductivity readings during the survey. Data were collected electronically and processed to create contour maps of anomalies.

Two anomalies were identified as targets for trenching and are shown in Figure 4.1. Figure 4.2 shows contoured measurement of the EM-31 data. The anomalies were located east of the utility line and near or directly beneath a tank trail. These locations were marked on the ground surface and investigated by trenching.

#### **4.1.2 Soil Sampling Investigation**

Trenching and soil sampling at FH-018 were performed on March 9, 1997. Trenches were excavated in the approximate locations of the two most prominent electromagnetic anomalies identified in the geophysical investigation. The trenches were excavated in a ~~AV~~ configuration and oriented to maximize their intersection of the anomalies. The trenches were approximately 3 ft wide and varied in length from 20 to 35 ft. Trench locations are shown in Figure 4.3.

The southernmost trenches were excavated first. The initial trench was excavated to a total depth of 8 ft below ground surface. Although refuse was evident in the upper 6 inches of the soil at this location, it was clear that the underlying material had not been disturbed. All subsequent trenches were excavated to a depth of 4 ft. A piece of corrugated aluminum approximately 2 ft long and 2 ft wide was uncovered within the upper 1 ft of soil in the eastern arm of the first trench. It is possible that this object may have been the source of anomalous conductivity readings during the geophysical survey. No other buried objects were discovered.



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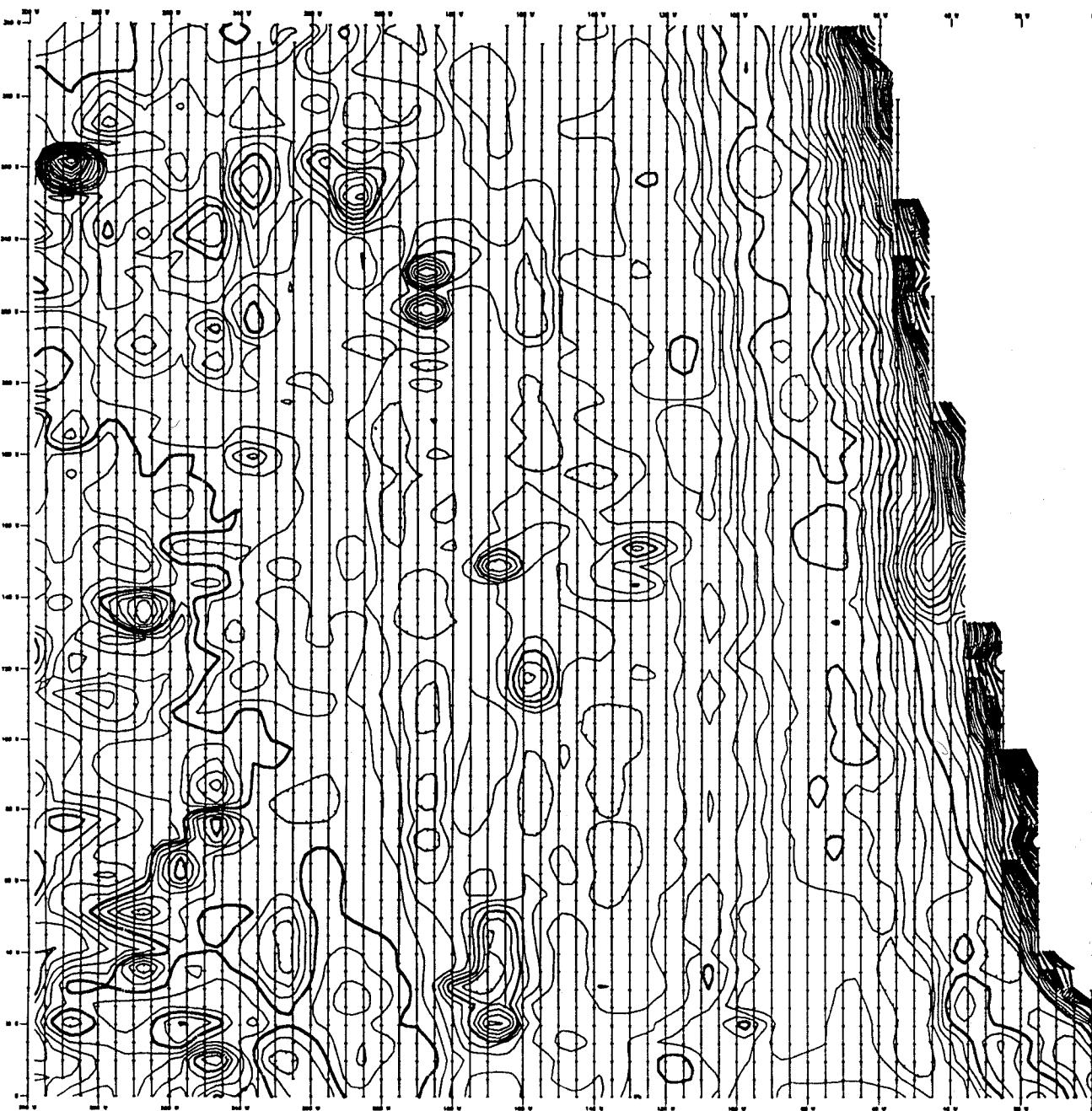
RCRA FACILITY INVESTIGATION

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FH-018 GEOPHYSICAL  
SURVEY DATA –  
VERTICAL QUADRATURE  
CONTOURS

**SAC** Science Applications  
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PROJECT NO. FIGURE NO.  
4.1



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FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

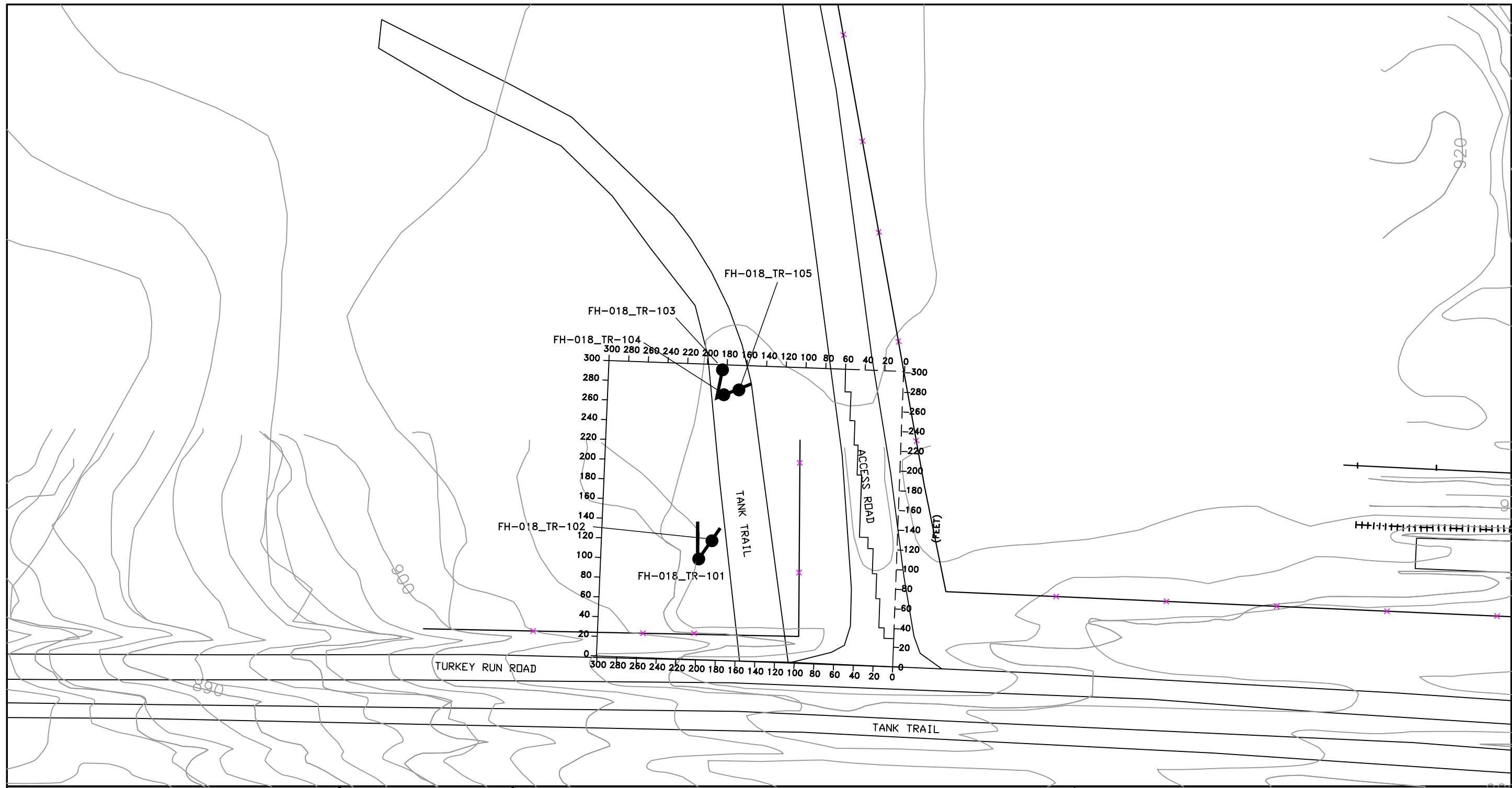
FH-018 GEOPHYSICAL  
SURVEY DATA –  
VERTICAL QUADRATURE  
CONTOURS



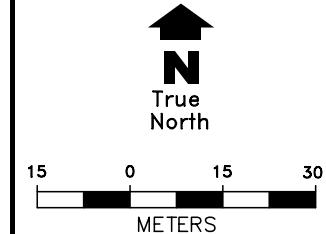
Science Applications  
International Corporation  
Columbus, Ohio

PROJECT NO.

FIGURE NO.  
4.2



FH-018  
MAIN FT.  
HOOD  
LOCATION  
MAP



LEGEND

- \* FENCE LINE
- TOPOGRAPHIC CONTOUR (FT.)
- - - DRAINAGE
- SAMPLING LOCATION
- TRENCH
- GEOPHYSICAL SURVEY GRID BOUNDARY

U.S. ARMY  
FORT HOOD, TEXAS

RCRA FACILITY INVESTIGATION

LOCATION OF GEOPHYSICAL SURVEY GRID,  
SAMPLING LOCATIONS, AND TRENCHES, FH-018

**SAIC** Science Applications  
International Corporation Columbus, Ohio



DRAWN SC	CHECKED	DATE	SCALE AS SHOWN	PROJECT NO.	FIGURE NO.
4.3					

After the first trench was completed to a depth of 8 feet, a small amount of groundwater seeped into the excavation. However, infiltration of water to the trench was very slow and resulted in an insufficient quantity of water to allow sampling. Because of the wet weather conditions that preceded trenching and the small quantity of water observed, it is not clear whether this water represents a perched zone or was caused by infiltration of recent precipitation.

Five soil samples were collected for laboratory analysis at the locations shown in Figure 4.3. Because of the nature of the suspected contamination, soil samples were analyzed for organophosphate pesticides only. Samples were collected from the backhoe bucket using stainless-steel spoons and bowls. Sample TRI01 was collected at 2.0 ft BGS at the south end of the first trench. Sample TR-102 was collected from the second trench at a depth of 7.0 ft BGS. In the second pair of trenches, sample TRI03 was collected at the northern end of the first trench, at a depth of 4.0 ft. The trench was extended southward, where TR104 was collected. Finally, sample TRI05 was collected in the middle of the second trench of the pair. Because bedrock was encountered at 4 ft BGS in the southern halves of both trenches, TRI04 and TRI05 were collected at this depth (see Appendix B). All soil sampling, sample handling, chain-of-custody, and other field activities were conducted in accordance with the RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995). Organic-vapor monitoring was conducted throughout the trenching operation, but no volatile organics were detected with field instruments.

Soil characteristics were recorded in the site logbook. The trenching indicated that there had been no disturbance of soils within 8 ft of the ground surface at the locations investigated. Tan and light tan silty clay or clay with limestone rubble were present in every trench, and extended to a depth of approximately 7.5 ft in the deepest trench. Underlying the unconsolidated material was weathered gray limestone and clay, which prevented further trenching.

The trenches were backfilled immediately following sampling activities and the site was restored to its initial condition.

## **4.2 UNIT INVESTIGATION AND ANALYTICAL RESULTS**

### **4.2.1 Soil Analytical Results**

There was no indication of any disturbed soils in the general area of FH-018 during trenching. In addition, no buried materials were detected during the geophysical investigation and trenching. There were no pesticide constituents detected or encountered above practical quantitation limits (PQLs) in any of the soil samples. A summary of analytical results for soils at SWMU FH-018 are provided in their entirety in Appendix A. Soil trenching logs are provided in Appendix B.

### **4.2.2 Disposition of Investigation Derived Waste (IDW)**

No solid IDW was generated during the FH-018 investigation. All excavated material was replaced in the trenches when sampling activities were completed. Liquid IDW was limited to non-hazardous decontamination fluids resulting from the cleaning of the excavator bucket and other sampling equipment. The liquid IDW was disposed of at the 1st Calvary Division Tactical Vehicle Wash Facility, since there was no pesticide contamination detected at FH-018 above the PQLs. The wash water from the 1st Calvary Division Vehicle Wash Facility is treated before release into the environment. The Vehicle Wash Facility is a closed-loop system consisting of three ponds used to settle out dirt and sediment.

## **5.0 SOIL SCREENING ANALYSIS**

The Texas Natural Resource Conservation Commission (TNRCC) has promulgated risk reduction standards (30 TAC 335, Subchapter S) for soils and groundwater for residential and industrial land uses. Risk Reduction Standards (RRSs) Number 1 are defined as background concentrations or analytical practical quantitation limit (PQLs) values, whichever is greater. RRSs Number 2 are health-based standards and criteria that are deemed protective of human health or the environment. The TNRCC RRSs have been used to screen the data generated at FH-018 to determine whether or not constituents are present at the site at concentrations which may indicate that a release has occurred.

A site is in compliance with the TNRCC RRSs Number 1 if constituents meet the criteria defined above. Pesticides were not analyzed in background samples collected at Fort Hood. Therefore, the TNRCC RRSs Number 1 for analytes at FH-018 are the PQL values. There were no organo-phosphorous pesticides detected above analytical PQLs at FH-018; therefore, there is no evidence that a release has occurred at the site.

## **6.0 INVESTIGATION ANALYSIS**

### **6.1 DATA QUALITY ASSURANCE/QUALITY CONTROL**

The Fort Hood RFI Work Plan, the contract laboratory's Quality Assurance Plan, and USEPA SW-846 or other approved procedures for analytical chemistry and physical testing methods were followed for field and laboratory quality assurance/quality control (QA/QC) of FH-018 samples. Field QC samples included trip blanks, rinsate blanks, field duplicates, and split samples. All QA and QC samples were collected as replicate samples of the same field sample. The QA and QC samples were collected at a frequency of 10 percent per site per media and analyzed along with the associated environmental samples. Laboratory QC procedures as prescribed by each analytical method were followed by the contract laboratory and included, where applicable, gas chromatography/mass spectrometry (GC/MS) tuning, initial and continuing calibrations, method/extraction blanks, laboratory control samples (LCS), surrogate spikes, internal and external standards, duplicates, matrix spikes/matrix spike duplicates (MS/MSDs), inductively coupled plasma (ICP) and atomic absorption (AA) related QC procedures/samples, and spiked sample clean-up results.

Quality control analyses were conducted by the contract laboratory as an internal control measure of the accuracy and precision of the data. Quality assurance sample analyses were performed by the Army Corps of Engineers-Southwest District Laboratory as an external control measure of the accuracy and precision of the contract laboratory's results and of sampling procedures. The QA/QC and corresponding field sample results are reviewed by Army Corps of Engineers quality assurance personnel, who then issue a Chemical Quality Assurance Report (CQAR).

According to the CQAR, dichlorvos and diazinon concentrations are potential false negatives due to deviation in the QC data from QC criteria. The primary reason for the concern over potential false negative values is based on the MS/MSD and LCS recovery data. The LCS duplicate sample yielded acceptable recovery results. Generally, no data validation qualifiers are applied to sample data based on the MS/MSD results due to the heterogeneity of soils and matrix interferences that make replication of soil sample results difficult. All other quality control measures and data quality objectives (e.g. holding times, surrogate recoveries, internal standards, etc.) were met. One sample was collected and analyzed in triplicate (primary, QC split, and QA split sample) for organophosphorus pesticides and all the data agreed within acceptable limits (all non-detects). Therefore, the concern of potential false negatives was eliminated based on the triplicate analysis comparison and the acceptability of other QC data.

Data QA/QC procedures also included an independent data validation of 10 percent of the results for compliance of analyses to data quality objectives. All results for FH-018 data that were reviewed as a function of the data validation task met project data quality objectives, and are useable data. A copy of the laboratory results and the associated quality control samples are included in Appendix A.

### **6.2 INVESTIGATION RESULTS**

The data set for surface and subsurface soils at FH-018 and the quality of the data are useable to meet the objectives of the RFI as described in Section 4.0 of this report. A total of 5 soil samples were collected from the 4 trenches at the site and analyzed according to the Final RCRA Facility Investigation Work Plan for 35 SWMUs (USACE 1995). The geophysical investigation, trenching activities, and the number and location of the soil samples were adequate to provide information regarding the presence/absence of Vapona contamination, the characterization of the vertical and lateral extent of potential contamination, and the boundaries of the suspected burial site. Based on the results of the geophysical studies, trenching, and soil analysis, there is no detectable organophosphorus pesticide contamination at FH-018.

## **7.0 CONCLUSIONS AND RECOMMENDATIONS**

There is no indication that site FH-018 was used as a disposal unit based on the geophysical, visual and analytical results. Analytical results indicate that there is no pesticide contamination at the unit above PQLs. Based on the RFI results, no further action is proposed for this unit.

## **8.0 REFERENCES**

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**APPENDIX A**

**FH-018 Pesticide Burial Site  
Analytical Results**

## FH-018 Analytical Results

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	86-50-0	Azinphos Methyl	478	478	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	35400-43-2	Bolstar	103	103	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	2921-88-2	Chlorpyrifos	111	111	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	56-72-4	Coumaphos	562	562	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	126-75-0	Demeton S	107	107	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	333-41-5	Diazinon	213	213	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	62-73-7	Dichlorvos	96	96	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	298-04-4	Disulfoton	135	135	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	13194-48-4	Ethoprop	191	191	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	115-90-2	Fensulfothion	438	438	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	55-38-9	Fenthion	78	78	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	150-50-5	Merphos	169	169	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	7786-34-7	Mevinphos	169	169	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	300-76-5	Naled	337	337	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	298-000-0	Parathion, Methyl	20	20	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	298-02-2	Phorate	124	124	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	299-84-3	Ronnel	124	124	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	22248-79-9	Stirophos	640	640	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	34643-46-4	Tokuthion	180	180	ug/kg	U	U	SW846 8141
TR101	18TR101	FH018-TR101/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	TCHNT	Trichloroanate	107	107	ug/kg	U	U	SW846 8141

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	86-50-0	Azinphos Methyl	489	489	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	35400-43-2	Bolstar	106	106	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	2921-88-2	Chlorpyrifos	114	114	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	56-72-4	Coumaphos	575	575	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	126-75-0	Demeton S	109	109	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	333-41-5	Diazinon	218	218	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	62-73-7	Dichlorvos	98	98	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	298-04-4	Disulfoton	138	138	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	13194-48-4	Ethoprop	195	195	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	115-90-2	Fensulfothion	448	448	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	55-38-9	Fenthion	79	79	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	150-50-5	Morphos	172	172	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	7786-34-7	Mevinphos	172	172	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	300-76-5	Naled	345	345	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	298-000-0	Parathion, Methyl	21	21	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	298-02-2	Phorate	126	126	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	299-84-3	Ronnel	126	126	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	22248-79-9	Stirophos	655	655	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	34643-46-4	Tokuthion	184	184	ug/kg	U	U	SW846 8141
TR101	FHSB232	FH018-SB232/03-09-97/2.0-2.5	03/09/1997	2.0-2.5	TCHNT	Trichloroanate	109	109	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	86-50-0	Azinphos Methyl	483	483	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	35400-43-2	Bolstar	105	105	ug/kg	U	U	SW846 8141

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	2921-88-2	Chlorpyrifos	113	113	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	56-72-4	Coumaphos	568	568	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	126-75-0	Demeton S	108	108	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	333-41-5	Diazinon	216	216	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	62-73-7	Dichlorvos	97	97	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	298-04-4	Disulfoton	136	136	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	13194-48-4	Ethoprop	193	193	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	115-90-2	Fensulfothion	443	443	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	55-38-9	Fenthion	78	78	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	150-50-5	Merphos	170	170	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	7786-34-7	Mevinphos	170	170	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	300-76-5	Naled	341	341	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	298-000-0	Parathion, Methyl	20	20	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	298-02-2	Phorate	125	125	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	299-84-3	Ronnel	125	125	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	22248-79-9	Stirophos	648	648	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	34643-46-4	Tokuthion	182	182	ug/kg	U	U	SW846 8141
TR102	18TR102	FH018-TR102/03-09-97/0.0-1.0	03/09/1997	0.0-1.0	TCHNT	Trichloroanate	108	108	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	86-50-0	Azinphos Methyl	494	494	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	35400-43-2	Bolstar	107	107	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	2921-88-2	Chlorpyrifos	115	115	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	56-72-4	Coumaphos	581	581	ug/kg	U	U	SW846 8141

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	126-75-0	Demeton S	110	110	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	333-41-5	Diazinon	221	221	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	62-73-7	Dichlorvos	99	99	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	298-04-4	Disulfoton	140	140	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	13194-48-4	Ethoprop	198	198	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	115-90-2	Fensulfothion	453	453	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	55-38-9	Fenthion	80	80	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	150-50-5	Merphos	174	174	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	7786-34-7	Mevinphos	174	174	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	300-76-5	Naled	349	349	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	298-000-0	Parathion, Methyl	21	21	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	298-02-2	Phorate	128	128	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	299-84-3	Ronnel	128	128	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	22248-79-9	Stirophos	663	663	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	34643-46-4	Tokuthion	186	186	ug/kg	U	U	SW846 8141
TR103	18TR103	FH018-TR103/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	TCHNT	Trichloroanate	110	110	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	86-50-0	Azinphos Methyl	483	483	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	35400-43-2	Bolstar	105	105	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	2921-88-2	Chlorpyrifos	113	113	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	56-72-4	Coumaphos	568	568	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	126-75-0	Demeton S	108	108	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	333-41-5	Diazinon	216	216	ug/kg	U	U	SW846 8141

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	62-73-7	Dichlorvos	97	97	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	298-04-4	Disulfoton	136	136	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	13194-48-4	Ethoprop	193	193	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	115-90-2	Fensulfothion	443	443	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	55-38-9	Fenthion	78	78	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	150-50-5	Merphos	170	170	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	7786-34-7	Mevinphos	170	170	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	300-76-5	Naled	341	341	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	298-000-0	Parathion, Methyl	20	20	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	298-02-2	Phorate	125	125	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	299-84-3	Ronnel	125	125	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	22248-79-9	Stirophos	648	648	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	34643-46-4	Tokuthion	182	182	ug/kg	U	U	SW846 8141
TR103	18TR104	FH018-TR104/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	TCHNT	Trichloroanate	108	108	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	86-50-0	Azinphos Methyl	483	483	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	35400-43-2	Bolstar	105	105	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	2921-88-2	Chlorpyrifos	113	113	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	56-72-4	Coumaphos	568	568	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	126-75-0	Demeton S	108	108	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	333-41-5	Diazinon	216	216	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	62-73-7	Dichlorvos	97	97	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	298-04-4	Disulfoton	136	136	ug/kg	U	U	SW846 8141

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	13194-48-4	Ethoprop	193	193	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	115-90-2	Fensulfothion	443	443	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	55-38-9	Fenthion	78	78	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	150-50-5	Merphos	170	170	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	7786-34-7	Mevinphos	170	170	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	300-76-5	Naled	341	341	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	298-000-0	Parathion, Methyl	20	20	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	298-02-2	Phorate	125	125	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	299-84-3	Ronnel	125	125	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	22248-79-9	Stirophos	648	648	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	34643-46-4	Tokuthion	182	182	ug/kg	U	U	SW846 8141
TR104	18TR105	FH018-TR105/03-09-97/4.0-4.5	03/09/1997	4.0-4.5	TCHNT	Trichloroanate	108	108	ug/kg	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		7440-38-2	Arsenic	2.1	2.1	ug/l	U	U	SW846 6010
	ER061	FH018-ER061/03-09-97	03/09/1997		7440-39-3	Barium	0.3	0.30	ug/l	U	U	SW846 6010
	ER061	FH018-ER061/03-09-97	03/09/1997		7440-43-9	Cadmium	0.3	0.30	ug/l	U	U	SW846 6010
	ER061	FH018-ER061/03-09-97	03/09/1997		7440-47-3	Chromium	1	1.0	ug/l	U	U	SW846 6010
	ER061	FH018-ER061/03-09-97	03/09/1997		7439-92-1	Lead	0.9	0.90	ug/l	U	U	SW846 6010
	ER061	FH018-ER061/03-09-97	03/09/1997		7439-97-6	Mercury	0.1	0.10	ug/l	U	U	SW846 7470
	ER061	FH018-ER061/03-09-97	03/09/1997		7782-49-2	Selenium	2.2	2.2	ug/l	UW	UJ	SW846 7740
	ER061	FH018-ER061/03-09-97	03/09/1997		7440-22-4	Silver	1	1.0	ug/l	U	U	SW846 6010
	ER061	FH018-ER061/03-09-97	03/09/1997		86-50-0	Azinphos Methyl	2.6	2.6	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		35400-43-2	Bolstar	2	2	ug/l	U	U	SW846 8141

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
	ER061	FH018-ER061/03-09-97	03/09/1997		2921-88-2	Chlorpyrifos	2	2	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		56-72-4	Coumaphos	4.1	4.1	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		126-75-0	Demeton S	2.7	2.7	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		333-41-5	Diazinon	3.3	3.3	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		62-73-7	Dichlorvos	2.9	2.9	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		298-04-4	Disulfoton	2.2	2.2	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		13194-48-4	Ethoprop	2.3	2.3	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		115-90-2	Fensulfothion	6	6	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		55-38-9	Fenthion	2	2	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		150-50-5	Merphos	2.9	2.9	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		7786-34-7	Mevinphos	4.7	4.7	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		300-76-5	Naled	5	5	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		298-000-0	Parathion, Methyl	0.4	0.4	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		298-02-2	Phorate	1.8	1.8	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		299-84-3	Ronnel	4.1	4.1	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		22248-79-9	Stirophos	5.7	5.7	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		34643-46-4	Tokuthion	3.4	3.4	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		TCHNT	Trichloroanate	2	2	ug/l	U	U	SW846 8141
	ER061	FH018-ER061/03-09-97	03/09/1997		95-94-3	1,2,4,5-Tetrachlorobenzene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		120-82-1	1,2,4-Trichlorobenzene	1	10	ug/l	J	J	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		95-50-1	1,2-Dichlorobenzene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		541-73-1	1,3-Dichlorobenzene	10	10	ug/l	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
	ER061	FH018-ER061/03-09-97	03/09/1997		106-46-7	1,4-Dichlorobenzene	1	10	ug/l	J	J	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		108-60-1	2,2'-oxybis(1-chloropropane)	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		95-95-4	2,4,5-Trichlorophenol	50	50	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		88-06-2	2,4,6-Trichlorophenol	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		120-83-2	2,4-Dichlorophenol	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		105-67-9	2,4-Dimethylphenol	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		51-28-5	2,4-Dinitrophenol	50	50	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		121-14-2	2,4-Dinitrotoluene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		606-20-2	2,6-Dinitrotoluene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		91-58-7	2-Chloronaphthalene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		95-57-8	2-Chlorophenol	2	10	ug/l	J	J	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		91-57-6	2-Methylnaphthalene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		95-48-7	2-Methylphenol	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		88-74-4	2-Nitroaniline	50	50	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		88-75-5	2-Nitrophenol	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		91-94-1	3,3'-Dichlorobenzidine	20	20	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		99-09-2	3-Nitroaniline	50	50	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		534-52-1	4,6-Dinitro-o-Cresol	50	50	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		101-55-3	4-Bromophenyl-phenyl Ether	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		106-47-8	4-Chloroaniline	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		7005-72-3	4-Chlorophenyl-phenylether	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		106-44-5	4-Methylphenol	10	10	ug/l	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
	ER061	FH018-ER061/03-09-97	03/09/1997		100-01-6	4-Nitroaniline	50	50	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		100-02-7	4-Nitrophenol	50	50	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		59-50-7	4-chloro-3-methylphenol	2	10	ug/l	J	J	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		83-32-9	Acenaphthene	1	10	ug/l	J	J	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		208-96-8	Acenaphthylene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		120-12-7	Anthracene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		56-55-3	Benzo(a)anthracene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		50-32-8	Benzo(a)pyrene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		205-99-2	Benzo(b)fluoranthene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		191-24-2	Benzo(g,h,i)perylene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		207-08-9	Benzo(k)fluoranthene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		65-85-0	Benzoic Acid	1	50	ug/l	J	J	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		100-51-6	Benzyl Alcohol	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		111-91-1	Bis(2-chloroethoxy)methane	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		111-44-4	Bis(2-chloroethyl)ether	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		117-81-7	Bis(2-ethylhexyl)phthalate	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		85-68-7	Butyl Benzyl Phthalate	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		218-01-9	Chrysene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		84-74-2	Di-n-butyl Phthalate	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		117-84-0	Di-n-octyl Phthalate	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		53-70-3	Dibenz(a,h)anthracene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		132-64-9	Dibenzofuran	10	10	ug/l	U	U	SW846 8270

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
	ER061	FH018-ER061/03-09-97	03/09/1997		84-66-2	Diethyl Phthalate	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		131-11-3	Dimethyl Phthalate	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		206-44-0	Fluoranthene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		86-73-7	Fluorene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		118-74-1	Hexachlorobenzene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		87-68-3	Hexachlorobutadiene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		77-47-4	Hexachlorocyclopentadiene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		67-72-1	Hexachloroethane	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		193-39-5	Indeno(1,2,3-cd)pyrene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		78-59-1	Isophorone	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		621-64-7	N-Nitroso-di-n-propylamine	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		86-30-6	N-Nitrosodiphenylamine	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		91-20-3	Naphthalene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		98-95-3	Nitrobenzene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		87-86-5	Pentachlorophenol	1	50	ug/l	J	J	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		85-01-8	Phenanthrene	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		108-95-2	Phenol	10	10	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		129-00-0	Pyrene	1	10	ug/l	J	J	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		110-86-1	Pyridine	50	50	ug/l	U	U	SW846 8270
	ER061	FH018-ER061/03-09-97	03/09/1997		630-20-6	1,1,1,2-Tetrachloroethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		71-55-6	1,1,1-Trichloroethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		79-34-5	1,1,2,2-Tetrachloroethane	5	5	ug/l	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
	ER061	FH018-ER061/03-09-97	03/09/1997		79-00-5	1,1,2-Trichloroethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		75-34-3	1,1-Dichloroethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		75-35-4	1,1-Dichloroethene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		563-58-6	1,1-Dichloropropene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		87-61-6	1,2,3-Trichlorobenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		96-18-4	1,2,3-Trichloropropane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		120-82-1	1,2,4-Trichlorobenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		95-63-6	1,2,4-trimethylbenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		106-93-4	1,2-Dibromoethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		95-50-1	1,2-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		107-06-2	1,2-Dichloroethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		78-87-5	1,2-Dichloropropane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		156-59-2	1,2-cis-Dichloroethene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		96-12-8	1,2-dibromo-3-chloropropane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		156-60-5	1,2-trans-Dichloroethene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		108-67-8	1,3,5-trimethylbenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		541-73-1	1,3-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		142-28-9	1,3-Dichloropropane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		106-46-7	1,4-Dichlorobenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		594-20-7	2,2-Dichloropropane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		78-93-3	2-Butanone	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		95-49-8	2-Chlorotoluene	5	5	ug/l	U	U	SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
	ER061	FH018-ER061/03-09-97	03/09/1997		591-78-6	2-Hexanone	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		106-43-4	4-Chlorotoluene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		108-10-1	4-Methyl-2-pentanone	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		67-64-1	Acetone	20	5	ug/l			SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		71-43-2	Benzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		108-86-1	Bromobenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		74-97-5	Bromochloromethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		75-27-4	Bromodichloromethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		75-25-2	Bromoform	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		74-83-9	Bromomethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		56-23-5	Carbon Tetrachloride	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		108-90-7	Chlorobenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		75-00-3	Chloroethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		67-66-3	Chloroform	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		74-87-3	Chloromethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		124-48-1	Dibromochloromethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		74-95-3	Dibromomethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		75-71-8	Dichlorodifluoromethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		100-41-4	Ethylbenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		87-68-3	Hexachlorobutadiene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		98-82-8	Isopropyl Benzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		75-09-2	Methylene Chloride	10	5	ug/l			SW846 8260

Location	Sample ID	COE Sample ID	Date Collected	Depth	CAS Number	Parameter	Result	Detection Limit	Units of Measure	Lab * Qual	Data** Qual	Method
	ER061	FH018-ER061/03-09-97	03/09/1997		91-20-3	Naphthalene	2	5	ug/l	J	J	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		100-42-5	Styrene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		127-18-4	Tetrachloroethene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		108-88-3	Toluene	2	5	ug/l	J	J	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		79-01-6	Trichloroethene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		75-69-4	Trichlorofluoromethane	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		75-01-4	Vinyl Chloride	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		13-302-07	m,p-Xylene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		104-51-8	n-Butylbenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		103-65-1	n-propylbenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		95-47-6	o-Xylene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		99-87-6	p-Isopropyltoluene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		135-98-8	sec-Butylbenzene	5	5	ug/l	U	U	SW846 8260
	ER061	FH018-ER061/03-09-97	03/09/1997		98-06-6	tert-Butylbenzene	5	5	ug/l	U	U	SW846 8260

**APPENDIX B**

**FH-018 Trenching Logbook Entries**

## DAILY ACTIVITIES SUMMARY

DATE: 3.9.97 LOCATION: FH-018 PAGE: 1WEATHER: OVERTCAST, 70°F, LIGHT MISTPERSONNEL: K.DOMINIC (SAIC) A-CHAMBERLIN (SAIC)J.ALVAREZ (SAIC)BILL CHRISTOPHER (TERRA-MAR)

## ACTIVITIES:

0830 SET UP AT FH-018: FIRST TRENCH (TRI01) RUNS IMMEDIATELY EAST OF POWER LINE (SEE DWG.), NORTH-SOUTH. B. CHRISTOPHER DECON BACKHOE BUCKET.

0850 TRENCH BEGINS AT TRI01's SOUTH END. VISIBLE SCRAP METAL IN UPPER 3".

0900 SAMPLE COLLECTED @ 1.5' K-D 2.0FT (DUPE+SPLT) [18TRI01]

0910 GEOTECH SAMPLE COLLECTED 2-3'

PHOTO #1 DECON OF BACKHOE BUCKET

# 2 TRI01 0-6"

# 3 TRI01 FROM EAST

# 4 TRI01 FROM SOUTH END

# 5 TRI01 2' DEPTH SHOWING TAPE

0927 Mini-Rae reading @ bucket (6-7' depth) = Ø.

1000 TARGET DEPTH OF 8.0' REACHED @ SOUTH END. MWHITE ARRIVES.

1020 TRI01 TERMINATED @ 7.0' DEPTH - TRACKHOE MOVED TO 2nd LOCATION @ FIRST TRENCH SITE (TR-102)

PHOTO #6 2nd trench @ TR-102. visible trash in surface soil.

SAMPLE [BTR-102] collected.

1040 SURFACE SOIL SLUMPING INTO HOSE EXPOSES A 2' x 1.7' sheet of CORRUGATED ALUMINUM MAT (PROBABLE SOURCE OF GEOPHYSICS ANOMALY?).

THIS WAS FOUND CLOSE TO SURFACE (0-1.5'). DEPTH OF TRI02 IS TERMINATED @ 4' DEPTH, LENGTH = 36'

PHOTO #7 Looking down into TRI01+TRI02 from apex. →

RECORDED BY: K.Dominic QA CHECKED BY: \_\_\_\_\_

TR103 ALUMINUM SHEET

1100 Base of TR101 BECOMING VISIBLELY WET. MOVE OFF OF TR102 AND BEGIN TRENCHING AT TR103 (SEE DWS).  
P.I.D readings @ bucket = 0.05 ppm.

1119 PHOTO 9: BEGINNING TR103

PHOTO 10: TR103. Looking SW (DEPTH @ 3.5')

1125 Sample collected @ DEPTH = 4.0'. KD directs Bill Christopher to go no deeper - all mat'l is undisturbed. Geotech sample also collected. (SAMPLE NO. [18TR-103])

1145 Sample [18TR-104] collected @ 4'-4.5' @ S. end of TR103.

1200 Begin TR104, oriented NE-SW (begin @ SW end!)

PHOTO #11: TR104, looking NE. No visible trash @ surface.

1220 BEDROCK ENCOUNTERED @ 4' on the SW END OF TRENCH.

B-CHRISTOPHER DIRECTED TO COMPLETE TRENCH. [SAMPLE 18TR-105]  
collected at NE end of hole

PHOTO #12: Measuring tape showing 6.0' depth @ TR104.

1230 B-CHRISTOPHER BEGINS BACKFILLING TR103-104. No white off sets

1530 Backfilling & staking completed. All persons off site

↓  
Dominic

3.7.72

SAMPLE LOCATION SKETCH		HOLE NUMBER TL101
PROJECT <i>Ft Fuel RFI</i>	ELEVATION TOP OF HOLE	
LOCATION STATION TR101 FH018	DATUM FOR ELEVATION SHOWN	
LOCATION SKETCH		SCALE: 25 ft <sup>2</sup> squares
<p><i>Electric line &amp; pole</i> <i>telephone line &amp; pole</i></p>		
COMMENTS		
SIGNATURE OF INSPECTOR/DATE	PROJECT	HOLE NO.

SAMPLE LOCATION SKETCH		HOLE NUMBER
PROJECT	ELEVATION TOP OF HOLE	
LOCATION/STATION	DATUM FOR ELEVATION SHOWN	
LOCATION SKETCH		SCALE:
<p>LITHOLOGIC LOG - TR101</p> <p>0 - 0.5' FILL MATERIAL - TAN, DRY, NON-COHESIVE, CONTAINS SCRAP METAL, GLASS, OTHER REFUSE</p> <p>0.5 - 1.5' TAN CLAY W/ CRUSHED LIMESTONE &amp; DRY, NON-COHESIVE, MINOR SILT 10YR 7/8 YELLOW, WHITE CLAY STRINGER SYR 8/1</p> <p>1.5 - 2.0' TAN + LIGHT TAN CLAY + LIMESTONE RUBBLE</p> <p>2.0 - 4.0' SAME LITHOL. CLAY BECOMING DAMP @ 4.0'</p> <p>4 - 6.0' SAME, LITHOL. WHITE SYR 8/1 SILTY CLAY STRINGERS</p> <p>6.0 - 7.0' TAN + LIGHT TAN CLAY + LIMESTONE RUBBLE 10YR 7/8 YELLOW, DAMP, LOW PLASTICITY</p> <p>7.0 - 8.0' GRAY LIMESTONE (WEATHERED) WITH LIGHT GRAY SYR 7/2 CLAY; DAMP, LOW PLASTICITY.</p>		
COMMENTS		
SIGNATURE OF INSPECTOR/DATE	PROJECT	HOLE NO.

S-10  
8**SAMPLE LOCATION SKETCH**

HOLE NUMBER

PROJECT

ELEVATION TOP OF HOLE

LOCATION/STATION

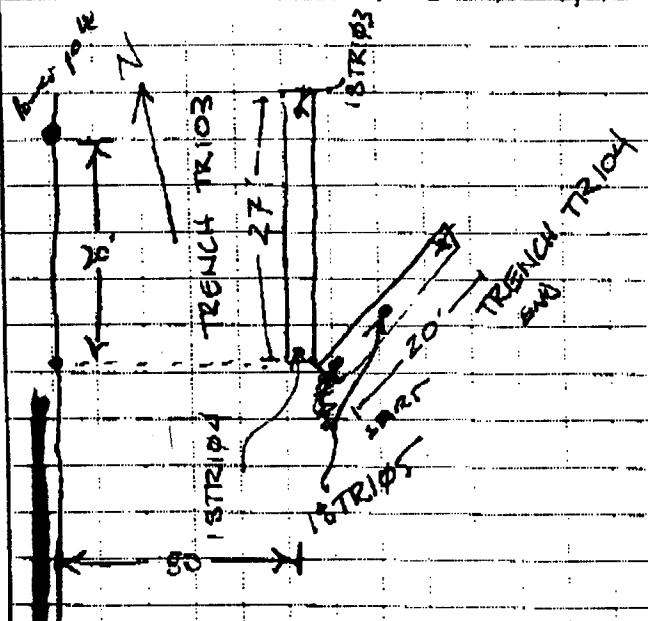
DATUM FOR ELEVATION SHOWN

LOCATION SKETCH

SCALE: 1 square = 5'

**LITHOLOGIC LOG - TR103**

0 - 1' 7.5 YR 5/1 GRAY SOIL w/LIMESTONE FRAGMENTS.  
 1 - 4' 10 YR 6/6 BROWNISH YELLOW, XY, CRUMBLY SILTY CLAY  
 LIMESTONE FRAGMENTS



COMMENTS

SIGNATURE OF INSPECTOR/DATE

PROJECT

HOLE NO.

SAIC 1996 after ENG FORM 5056-R